

# SENSOR-LINK



Conxall's Sensor-Link series includes the Mini-Mizer, AC Micro-Mizer, DC Micro-Mizer and the Nano-Mizer product lines, which are overmolded cable assemblies. The overmolding process provides for environmental sealing and strain relief for flexing applications.

Designed to meet or exceed the requirements of UL, CSA, NEMA, ANSI, IEC and SAE, the Sensor-Link series is intermateable and intermountable with other manufacturers equivalents. Conxall's strength is the combination of application experience and internal manufacturing capabilities that provide the knowledge and flexibility to meet and exceed the expectations of our customers.

Originally developed as an interconnect for a variety of sensing devices, the Sensor-Link series has found a wide range of applications as a general disconnect. Our exceptional quality, service and cost effectiveness makes Sensor-Link series the logical choice.

In our ongoing effort to expand our product offering, we are introducing our Mini and DC Micro Multi-Port box series, Micro/Mini LEDs, Die Block Connectors, and Shielded Nano-Mizer assemblies. Conxall's goal is to be a full service supplier to the sensor market.



## TABLE OF CONTENTS

|                                                             |       |
|-------------------------------------------------------------|-------|
| Mini-Mizer® "C" Size .....                                  | 4-5   |
| Mini-Mizer® "A" Size .....                                  | 6-10  |
| Mini-Mizer® EMI/RFI Shielded .....                          | 11    |
| Mini-Mizer® LED Cordsets .....                              | 12    |
| Mini-Mizer® Wiring Sequence Charts & Specifications .....   | 13-15 |
| AC Metal Micro-Mizer® .....                                 | 16-19 |
| DC Metal Micro-Mizer® .....                                 | 20-23 |
| Single Key Plastic Micro-Mizer® .....                       | 24-25 |
| DC Micro-Mizer® EMI/RFI Shielded .....                      | 26    |
| DC Micro-Mizer® LED Cordsets .....                          | 27    |
| Micro-Mizer® Wiring Sequence Charts & Specifications .....  | 28-29 |
| Nano-Mizer® and Molded Cord Sets .....                      | 30-31 |
| Nano-Mizer® EMI/RFI Shielded .....                          | 32    |
| Nano-Mizer® Wiring Sequence Charts and Specifications ..... | 33    |
| Die Block Connectors .....                                  | 34-36 |
| Die Block Wiring Sequence Charts and Specifications .....   | 37    |
| Multi-Port "A" Size Mini-Mizer® Junction Boxes .....        | 38-39 |
| Multi-Port DC Micro-Mizer® Junction Boxes .....             | 40-42 |
| New Products .....                                          | 43    |

### Warranty

CONXALL® Corp. manufactures the finest quality products available to the marketplace. However, these products are intended to be used in accordance with the specifications described in this catalog. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. A limited warranty applies to all CONXALL® Corp. products. Except for obligations specifically assumed by CONXALL® Corp. under warranty, CONXALL® Corp. will not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind whether or not based upon expressed or implied warranty, contract, negligence, or strict liability arising in connection with the design, manufacture, sale, use or repair of the products.

All drawings contained in this document are for representational purposes only, and should not be for used final specifications or engineering.

# SENSOR-LINK MINI-MIZER® "C" Size

## MOLDED CONNECTOR ASSEMBLIES



| Face View Male | Rating     | Overall Length Inches | Straight Male Single Ended | Straight Female Single Ended | 90° Male Single Ended | 90° Female Single Ended | Straight Inline Male Single Ended | Straight Inline Female Single Ended |
|----------------|------------|-----------------------|----------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|-------------------------------------|
|                | 7A<br>600V | 36                    | 169P36                     | 169S36                       | 189P36                | 189S36                  | 199P36                            | 199S36                              |
|                |            | 72                    | 169P72                     | 169S72                       | 189P72                | 189S72                  | 199P72                            | 199S72                              |
|                |            | 144                   | 169P144                    | 169S144                      | 189P144               | 189S144                 | 199P144                           | 199S144                             |
|                |            | Custom                | 169PXXXX                   | 169SXXXX                     | 189PXXXX              | 189SXXXX                | 199PXXXX                          | 199SXXXX                            |
|                |            |                       |                            |                              |                       |                         |                                   |                                     |
|                | 7A<br>600V | 36                    | 1610P36                    | 1610S36                      | 1810P36               | 1810S36                 | 1910P36                           | 1910S36                             |
|                |            | 72                    | 1610P72                    | 1610S72                      | 1810P72               | 1810S72                 | 1910P72                           | 1910S72                             |
|                |            | 144                   | 1610P144                   | 1610S144                     | 1810P144              | 1810S144                | 1910P144                          | 1910S144                            |
|                |            | Custom                | 1610PXXXX                  | 1610SXXXX                    | 1810PXXXX             | 1810SXXXX               | 1910PXXXX                         | 1910SXXXX                           |
|                |            |                       |                            |                              |                       |                         |                                   |                                     |
|                | 7A<br>600V | 36                    | 1612P36                    | 1612S36                      | 1812P36               | 1812S36                 | 1912P36                           | 1912S36                             |
|                |            | 72                    | 1612P72                    | 1612S72                      | 1812P72               | 1812S72                 | 1912P72                           | 1912S72                             |
|                |            | 144                   | 1612P144                   | 1612S144                     | 1812P144              | 1812S144                | 1912P144                          | 1912S144                            |
|                |            | Custom                | 1612PXXXX                  | 1612SXXXX                    | 1812PXXXX             | 1812SXXXX               | 1912PXXXX                         | 1912SXXXX                           |
|                |            |                       |                            |                              |                       |                         |                                   |                                     |
|                | 5A<br>600V | 36                    | 1619P36                    | 1619S36                      | 1819P36               | 1819S36                 | 1919P36                           | 1919S36                             |
|                |            | 72                    | 1619P72                    | 1619S72                      | 1819P72               | 1819S72                 | 1919P72                           | 1919S72                             |
|                |            | 144                   | 1619P144                   | 1619S144                     | 1819P144              | 1819S144                | 1919P144                          | 1919S144                            |
|                |            | Custom                | 1619PXXXX                  | 1619SXXXX                    | 1819PXXXX             | 1819SXXXX               | 1919PXXXX                         | 1919SXXXX                           |
|                |            |                       |                            |                              |                       |                         |                                   |                                     |

XXXX – Indicates “overall length / lead length” in inches.  
For mechanical, electrical and wiring sequence see pages 13-15.  
90° assemblies have key position at 12 o’clock.



| Externally Threaded Receptacle Male 12 Inch Leads | Externally Threaded Receptacle Female 12 Inch Leads | Internally Threaded Receptacle Male 12 Inch Leads | Internally Threaded Receptacle Female 12 Inch Leads | Straight Male / Male Double Ended       | Straight Female / Female Double Ended   | Straight Male / Female Double Ended     | Extension Set Inline Male / Female Double Ended | Extension Set Inline Female / Male Double Ended |
|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------|-------------------------------------------------|
| 179P12                                            | 179S12                                              | 179PN12                                           | 179SN12                                             | 569P9P36<br>569P9P72<br>569P9P144       | 569S9S36<br>569S9S72<br>569S9S144       | 569P9S36<br>569P9S72<br>569P9S144       | 519P9S36<br>519P9S72<br>519P9S144               | 519S9P36<br>519S9P72<br>519S9P144               |
| 179PXXX                                           | 179SXXX                                             | 179PNXXX                                          | 179SNXXX                                            | 569P9PXXXX                              | 569S9SXXXX                              | 569P9SXXXX                              | 519P9SXXXX                                      | 519S9PXXXX                                      |
| 1710P12                                           | 1710S12                                             | 1710PN12                                          | 1710SN12                                            | 5610P10P36<br>5610P10P72<br>5610P10P144 | 5610S10S36<br>5610S10S72<br>5610S10S144 | 5610P10S36<br>5610P10S72<br>5610P10S144 | 5110P10S36<br>5110P10S72<br>5110P10S144         | 5110S10P36<br>5110S10P72<br>5110S10P144         |
| 1710PXXX                                          | 1710SXXX                                            | 1710PNXXX                                         | 1710SNXXX                                           | 5610P10PXXXX                            | 5610S10SXXXX                            | 5610P10SXXXX                            | 5110P10SXXXX                                    | 5110S10PXXXX                                    |
| 1712P12                                           | 1712S12                                             | 1712PN12                                          | 1712SN12                                            | 5612P12P36<br>5612P12P72<br>5612P12P144 | 5612S12S36<br>5612S12S72<br>5612S12S144 | 5612P12S36<br>5612P12S72<br>5612P12S144 | 5112P12S36<br>5112P12S72<br>5112P12S144         | 5112S12P36<br>5112S12P72<br>5112S12P144         |
| 1712PXXX                                          | 1712SXXX                                            | 1712PNXXX                                         | 1712SNXXX                                           | 5612P12PXXXX                            | 5612S12SXXXX                            | 5612P12SXXXX                            | 5112P12SXXXX                                    | 5112S12PXXXX                                    |
| 1719P12                                           | 1719S12                                             | 1719PN12                                          | 1719SN12                                            | 5619P19P36<br>5619P19P72<br>5619P19P144 | 5619S19S36<br>5619S19S72<br>5619S19S144 | 5619P19S36<br>5619P19S72<br>5619P19S144 | 5119P19S36<br>5119P19S72<br>5119P19S144         | 5119S19P36<br>5119S19P72<br>5119S19P144         |
| 1719PXXX                                          | 1719SXXX                                            | 1719PNXXX                                         | 1719SNXXX                                           | 5619P19PXXXX                            | 5619S19SXXXX                            | 5619P19SXXXX                            | 5119P19SXXXX                                    | 5119S19PXXXX                                    |

XXXX – Indicates "overall length / lead length" in inches.  
 For mechanical, electrical and wiring sequence see pages 13-15.

# SENSOR-LINK MINI-MIZER® "A" Size

## MOLDED CONNECTOR ASSEMBLIES

STRAIGHT INLINE SINGLE-ENDED



STRAIGHT SINGLE-ENDED



90° INLINE SINGLE-ENDED



90° SINGLE-ENDED



| Face View Male | Rating      | Overall Length Inches | Straight Male Single Ended | Straight Female Single Ended | 90° Male Single Ended | 90° Female Single Ended | Straight Inline Male Single Ended | Straight Inline Female Single Ended | Externally Threaded Receptacle Male 12 Inch Leads |
|----------------|-------------|-----------------------|----------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|-------------------------------------|---------------------------------------------------|
|                | 13A<br>600V | 36                    | 162P36                     | 162S36                       | 182P36                | 182S36                  | 192P36                            | 192S36                              | 172P12                                            |
|                |             | 72                    | 162P72                     | 162S72                       | 182P72                | 182S72                  | 192P72                            | 192S72                              |                                                   |
|                |             | 144                   | 162P144                    | 162S144                      | 182P144               | 182S144                 | 192P144                           | 192S144                             |                                                   |
|                |             | Custom                | 162PXXXX                   | 162SXXXX                     | 182PXXXX              | 182SXXXX                | 192PXXXX                          | 192SXXXX                            |                                                   |
|                | 13A<br>600V | 36                    | 163P36                     | 163S36                       | 183P36                | 183S36                  | 193P36                            | 193S36                              | 173P12                                            |
|                |             | 72                    | 163P72                     | 163S72                       | 183P72                | 183S72                  | 193P72                            | 193S72                              |                                                   |
|                |             | 144                   | 163P144                    | 163S144                      | 183P144               | 183S144                 | 193P144                           | 193S144                             |                                                   |
|                |             | Custom                | 163PXXXX                   | 163SXXXX                     | 183PXXXX              | 183SXXXX                | 193PXXXX                          | 193SXXXX                            |                                                   |
|                | 10A<br>600V | 36                    | 164P36                     | 164S36                       | 184P36                | 184S36                  | 194P36                            | 194S36                              | 174P12                                            |
|                |             | 72                    | 164P72                     | 164S72                       | 184P72                | 184S72                  | 194P72                            | 194S72                              |                                                   |
|                |             | 144                   | 164P144                    | 164S144                      | 184P144               | 184S144                 | 194P144                           | 194S144                             |                                                   |
|                |             | Custom                | 164PXXXX                   | 164SXXXX                     | 184PXXXX              | 184SXXXX                | 194PXXXX                          | 194SXXXX                            |                                                   |
|                | 8A<br>600V  | 36                    | 165P36                     | 165S36                       | 185P36                | 185S36                  | 195P36                            | 195S36                              | 175P12                                            |
|                |             | 72                    | 165P72                     | 165S72                       | 185P72                | 185S72                  | 195P72                            | 195S72                              |                                                   |
|                |             | 144                   | 165P144                    | 165S144                      | 185P144               | 185S144                 | 195P144                           | 195S144                             |                                                   |
|                |             | Custom                | 165PXXXX                   | 165SXXXX                     | 185PXXXX              | 185SXXXX                | 195PXXXX                          | 195SXXXX                            |                                                   |
|                | 8A<br>600V  | 36                    | 166P36                     | 166S36                       | 186P36                | 186S36                  | 196P36                            | 196S36                              | 176P12                                            |
|                |             | 72                    | 166P72                     | 166S72                       | 186P72                | 186S72                  | 196P72                            | 196S72                              |                                                   |
|                |             | 144                   | 166P144                    | 166S144                      | 186P144               | 186S144                 | 196P144                           | 196S144                             |                                                   |
|                |             | Custom                | 166PXXXX                   | 166SXXXX                     | 186PXXXX              | 186SXXXX                | 196PXXXX                          | 196SXXXX                            |                                                   |

XXXX – Indicates "overall length / lead length" in inches.  
For mechanical, electrical and wiring sequence see pages 13-15.  
90° assemblies have key position at 12 o'clock.



| Externally Threaded<br>Receptacle<br>Female<br>12 Inch Leads | Internally Threaded<br>Receptacle<br>Male<br>12 Inch Leads | Internally Threaded<br>Receptacle<br>Female<br>12 Inch Leads | Straight<br>Male / Male<br>Double Ended | Straight<br>Female / Female<br>Double Ended | Straight<br>Male / Female<br>Double Ended | 90°<br>Male / Male<br>Double Ended | 90°<br>Female / Female<br>Double Ended | 90°<br>Male / Female<br>Double Ended |
|--------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|---------------------------------------------|-------------------------------------------|------------------------------------|----------------------------------------|--------------------------------------|
| 172S12                                                       | 172PN12                                                    | 172SN12                                                      | 562P2P36                                | 562S2S36                                    | 562P2S36                                  | 542P2P36                           | 542S2S36                               | 542P2S36                             |
|                                                              |                                                            |                                                              | 562P2P72                                | 562S2S72                                    | 562P2S72                                  | 542P2P72                           | 542S2S72                               | 542P2S72                             |
|                                                              |                                                            |                                                              | 562P2P144                               | 562S2S144                                   | 562P2S144                                 | 542P2P144                          | 542S2S144                              | 542P2S144                            |
| 172SXXX                                                      | 172PNXXX                                                   | 172SNXXX                                                     | 562P2PXXXX                              | 562S2SXXXX                                  | 562P2SXXXX                                | 542P2PXXXX                         | 542S2SXXXX                             | 542P2SXXXX                           |
| 173S12                                                       | 173PN12                                                    | 173SN12                                                      | 563P3P36                                | 563S3S36                                    | 563P3S36                                  | 543P3P36                           | 543S3S36                               | 543P3S36                             |
|                                                              |                                                            |                                                              | 563P3P72                                | 563S3S72                                    | 563P3S72                                  | 543P3P72                           | 543S3S72                               | 543P3S72                             |
|                                                              |                                                            |                                                              | 563P3P144                               | 563S3S144                                   | 563P3S144                                 | 543P3P144                          | 543S3S144                              | 543P3S144                            |
| 173SXXX                                                      | 173PNXXX                                                   | 173SNXXX                                                     | 563P3PXXXX                              | 563S3SXXXX                                  | 563P3SXXXX                                | 543P3PXXXX                         | 543S3SXXXX                             | 543P3SXXXX                           |
| 174S12                                                       | 174PN12                                                    | 174SN12                                                      | 564P4P36                                | 564S4S36                                    | 564P4S36                                  | 544P4P36                           | 544S4S36                               | 544P4S36                             |
|                                                              |                                                            |                                                              | 564P4P72                                | 564S4S72                                    | 564P4S72                                  | 544P4P72                           | 544S4S72                               | 544P4S72                             |
|                                                              |                                                            |                                                              | 564P4P144                               | 564S4S144                                   | 564P4S144                                 | 544P4P144                          | 544S4S144                              | 544P4S144                            |
| 174SXXX                                                      | 174PNXXX                                                   | 174SNXXX                                                     | 564P4PXXXX                              | 564S4SXXXX                                  | 564P4SXXXX                                | 544P4PXXXX                         | 544S4SXXXX                             | 544P4SXXXX                           |
| 175S12                                                       | 175PN12                                                    | 175SN12                                                      | 565P5P36                                | 565S5S36                                    | 565P5S36                                  | 545P5P36                           | 545S5S36                               | 545P5S36                             |
|                                                              |                                                            |                                                              | 565P5P72                                | 565S5S72                                    | 565P5S72                                  | 545P5P72                           | 545S5S72                               | 545P5S72                             |
|                                                              |                                                            |                                                              | 565P5P144                               | 565S5S144                                   | 565P5S144                                 | 545P5P144                          | 545S5S144                              | 545P5S144                            |
| 175SXXX                                                      | 175PNXXX                                                   | 175SNXXX                                                     | 565P5PXXXX                              | 565S5SXXXX                                  | 565P5SXXXX                                | 545P5PXXXX                         | 545S5SXXXX                             | 545P5SXXXX                           |
| 176S12                                                       | 176PN12                                                    | 176SN12                                                      | 566P6P36                                | 566S6S36                                    | 566P6S36                                  | 546P6P36                           | 546S6S36                               | 546P6S36                             |
|                                                              |                                                            |                                                              | 566P6P72                                | 566S6S72                                    | 566P6S72                                  | 546P6P72                           | 546S6S72                               | 546P6S72                             |
|                                                              |                                                            |                                                              | 566P6P144                               | 566S6S144                                   | 566P6S144                                 | 546P6P144                          | 546S6S144                              | 546P6S144                            |
| 176SXXX                                                      | 176PNXXX                                                   | 176SNXXX                                                     | 566P6PXXXX                              | 566S6SXXXX                                  | 566P6SXXXX                                | 546P6PXXXX                         | 546S6SXXXX                             | 546P6SXXXX                           |

XXXX – Indicates “overall length / lead length” in inches.  
For mechanical, electrical and wiring sequence see pages 13-15.  
90° assemblies have key position at 12 o'clock.

# SENSOR-LINK MINI-MIZER® "A" Size

## MOLDED CONNECTOR ASSEMBLIES

STRAIGHT EXTENSION SET



STRAIGHT TO 90° DOUBLE ENDED



| Face View Male | Rating      | Overall Length Inches | Straight Extension Set Inline Male /Female Double Ended | Straight Extension Set Inline Female /Male Double Ended | Straight to 90° Male /Male Double Ended | Straight to 90° Female /Female Double Ended | Straight to 90° Male /Female Double Ended | Straight to 90° Female /Male Double Ended |
|----------------|-------------|-----------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|
|                | 13A<br>600V | 36                    | 512P2S36                                                | 512S2P36                                                | 552P2P36                                | 552S2S36                                    | 552P2S36                                  | 552S2P36                                  |
|                |             | 72                    | 512P2S72                                                | 512S2P72                                                | 552P2P72                                | 552S2S72                                    | 552P2S72                                  | 552S2P72                                  |
|                |             | 144                   | 512P2S144                                               | 512S2P144                                               | 552P2P144                               | 552S2S144                                   | 552P2S144                                 | 552S2P144                                 |
|                |             | Custom                | 512P2SXXXX                                              | 512S2PXXXX                                              | 552P2PXXXX                              | 552S2SXXXX                                  | 552P2SXXXX                                | 552S2PXXXX                                |
|                | 13A<br>600V | 36                    | 513P3S36                                                | 513S3P36                                                | 553P3P36                                | 553S3S36                                    | 553P3S36                                  | 553S3P36                                  |
|                |             | 72                    | 513P3S72                                                | 513S3P72                                                | 553P3P72                                | 553S3S72                                    | 553P3S72                                  | 553S3P72                                  |
|                |             | 144                   | 513P3S144                                               | 513S3P144                                               | 553P3P144                               | 553S3S144                                   | 553P3S144                                 | 553S3P144                                 |
|                |             | Custom                | 513P3SXXXX                                              | 513S3PXXXX                                              | 553P3PXXXX                              | 553S3SXXXX                                  | 553P3SXXXX                                | 553S3PXXXX                                |
|                | 10A<br>600V | 36                    | 514P4S36                                                | 514S4P36                                                | 554P4P36                                | 554S4S36                                    | 554P4S36                                  | 554S4P36                                  |
|                |             | 72                    | 514P4S72                                                | 514S4P72                                                | 554P4P72                                | 554S4S72                                    | 554P4S72                                  | 554S4P72                                  |
|                |             | 144                   | 514P4S144                                               | 514S4P144                                               | 554P4P144                               | 554S4S144                                   | 554P4S144                                 | 554S4P144                                 |
|                |             | Custom                | 514P4SXXXX                                              | 514S4PXXXX                                              | 554P4PXXXX                              | 554S4SXXXX                                  | 554P4SXXXX                                | 554S4PXXXX                                |
|                | 8A<br>600V  | 36                    | 515P5S36                                                | 515S5P36                                                | 555P5P36                                | 555S5S36                                    | 555P5S36                                  | 555S5P36                                  |
|                |             | 72                    | 515P5S72                                                | 515S5P72                                                | 555P5P72                                | 555S5S72                                    | 555P5S72                                  | 555S5P72                                  |
|                |             | 144                   | 515P5S144                                               | 515S5P144                                               | 555P5P144                               | 555S5S144                                   | 555P5S144                                 | 555S5P144                                 |
|                |             | Custom                | 515P5SXXXX                                              | 515S5PXXXX                                              | 555P5PXXXX                              | 555S5SXXXX                                  | 555P5SXXXX                                | 555S5PXXXX                                |
|                | 8A<br>600V  | 36                    | 516P6S36                                                | 516S6P36                                                | 556P6P36                                | 556S6S36                                    | 556P6S36                                  | 556S6P36                                  |
|                |             | 72                    | 516P6S72                                                | 516S6P72                                                | 556P6P72                                | 556S6S72                                    | 556P6S72                                  | 556S6P72                                  |
|                |             | 144                   | 516P6S144                                               | 516S6P144                                               | 556P6P144                               | 556S6S144                                   | 556P6S144                                 | 556S6P144                                 |
|                |             | Custom                | 516P6SXXXX                                              | 516S6PXXXX                                              | 556P6PXXXX                              | 556S6SXXXX                                  | 556P6SXXXX                                | 556S6PXXXX                                |

XXXX – Indicates "overall length" in inches.

For mechanical, electrical and wiring sequence see pages 13-15.

90° assemblies have key position at 12 o'clock.



| Face View Male | Rating      | Wiring Diagram | Cable Length Inches | Y-Splitter Female/Female Female | Y-Splitter Male/Female Female |
|----------------|-------------|----------------|---------------------|---------------------------------|-------------------------------|
|                | 10A<br>300V |                | 12<br>Custom        | 592S2S2S12<br>592S2S2SXXX       | 592P2S2S12<br>592P2S2SXXX     |
|                | 10A<br>300V |                | 12<br>Custom        | 593S3S3S12<br>593S3S3SXXX       | 593P3S3S12<br>593P3S3SXXX     |
|                | 8A<br>300V  |                | 12<br>Custom        | 594S4S4S12<br>594S4S4SXXX       | 594P4S4S12<br>594P4S4SXXX     |
|                | 6A<br>300V  |                | 12<br>Custom        | 595S5S5S12<br>595S5S5SXXX       | 595P5S5S12<br>595P5S5SXXX     |
|                | 6A<br>300V  |                | 12<br>Custom        | 596S6S6S12<br>596S6S6SXXX       | 596P6S6S12<br>596P6S6SXXX     |

For insert combinations not shown - consult factory.

XXX - Indicates "cable length" in inches.

For mechanical, electrical and wiring sequence see pages 13-15.

| Face View Male | Rating   | Terminator Male | Terminator Female |
|----------------|----------|-----------------|-------------------|
|                | 8A, 600V | 535P            | 535S              |

Consult factory for other insert configurations.

| Shorting Plug Male | Shorting Plug Female |
|--------------------|----------------------|
| 52XPYY             | 52XSYY               |

X indicates number of contacts

YY indicates shorting positions

Shorting plug utilizes a jumper wire (no resistor)



# SENSOR-LINK MINI-MIZER® "A" Size

## MOLDED CONNECTOR ASSEMBLIES



| Face View Male | Rating      | Wiring Diagram | Cable Length Inches | Dual Connector with Cable Male/Female | Dual Connector with Cable Female/Female |
|----------------|-------------|----------------|---------------------|---------------------------------------|-----------------------------------------|
|                | 13A<br>600V |                | 36<br>Custom        | 572P2S36<br>572P2SXXX                 | 572S2S36<br>572S2SXXX                   |
|                | 13A<br>600V |                | 36<br>Custom        | 573P3S36<br>573P3SXXX                 | 573S3S36<br>573S3SXXX                   |
|                | 10A<br>600V |                | 36<br>Custom        | 574P4S36<br>574P4SXXX                 | 574S4S36<br>574S4SXXX                   |
|                | 8A<br>600V  |                | 36<br>Custom        | 575P5S36<br>575P5SXXX                 | 575S5S36<br>575S5SXXX                   |
|                | 8A<br>600V  |                | 36<br>Custom        | 576P6S36<br>576P6SXXX                 | 576S6S36<br>576S6SXXX                   |



| Face View Male | Rating      | Wiring Diagram | Tri-Connector Male/Female Female | Tri-Connector Female/Female Female |
|----------------|-------------|----------------|----------------------------------|------------------------------------|
|                | 13A<br>600V |                | 582P2S2S                         | 582S2S2S                           |
|                | 13A<br>600V |                | 583P3S3S                         | 583S3S3S                           |
|                | 10A<br>600V |                | 584P4S4S                         | 584S4S4S                           |
|                | 8A<br>600V  |                | 585P5S5S                         | 585S5S5S                           |
|                | 8A<br>600V  |                | 586P6S6S                         | 586S6S6S                           |

XXX – Indicates "cable length" in inches.  
For mechanical, electrical and wiring sequence see pages 13-15.  
For insert combinations not shown - consult factory.

# SENSOR-LINK MINI-MIZER® "A" Size EMI/RFI SHIELDED MOLDED CONNECTOR ASSEMBLIES



U.S. Patent #5,823,803

| Face View Male | Rating      | Overall Length Inches | Straight Male or Female Single Ended | Straight Inline Male or Female Single Ended | Straight Extension Set Male or Female Double Ended | Straight Male or Female Double Ended | Receptacle Male or Female 12 Inch leads |
|----------------|-------------|-----------------------|--------------------------------------|---------------------------------------------|----------------------------------------------------|--------------------------------------|-----------------------------------------|
|                | 13A<br>600V | 36                    | SH162*36                             | SH192*36                                    | SH512*2*36                                         | SH562*2*36                           |                                         |
|                |             | 72                    | SH162*72                             | SH192*72                                    | SH512*2*72                                         | SH562*2*72                           | SH172*12                                |
|                |             | 144                   | SH162*144                            | SH192*144                                   | SH512*2*144                                        | SH562*2*144                          |                                         |
|                |             | Custom                | SH162*XXXX                           | SH192*XXXX                                  | SH512*2*XXXX                                       | SH562*2*XXXX                         | SH172*XXX                               |
|                | 13A<br>600V | 36                    | SH163*36                             | SH193*36                                    | SH513*3*36                                         | SH563*3*36                           |                                         |
|                |             | 72                    | SH163*72                             | SH193*72                                    | SH513*3*72                                         | SH563*3*72                           | SH173*12                                |
|                |             | 144                   | SH163*144                            | SH193*144                                   | SH513*3*144                                        | SH563*3*144                          |                                         |
|                |             | Custom                | SH163*XXXX                           | SH193*XXXX                                  | SH513*3*XXXX                                       | SH563*3*XXXX                         | SH173*XXX                               |
|                | 10A<br>600V | 36                    | SH164*36                             | SH194*36                                    | SH514*4*36                                         | SH564*4*36                           |                                         |
|                |             | 72                    | SH164*72                             | SH194*72                                    | SH514*4*72                                         | SH564*4*72                           | SH174*12                                |
|                |             | 144                   | SH164*144                            | SH194*144                                   | SH514*4*144                                        | SH564*4*144                          |                                         |
|                |             | Custom                | SH164*XXXX                           | SH194*XXXX                                  | SH514*4*XXXX                                       | SH564*4*XXXX                         | SH174*XXX                               |
|                | 8A<br>600V  | 36                    | SH165*36                             | SH195*36                                    | SH515*5*36                                         | SH565*5*36                           |                                         |
|                |             | 72                    | SH165*72                             | SH195*72                                    | SH515*5*72                                         | SH565*5*72                           | SH175*12                                |
|                |             | 144                   | SH165*144                            | SH195*144                                   | SH515*5*144                                        | SH565*5*144                          |                                         |
|                |             | Custom                | SH165*XXXX                           | SH195*XXXX                                  | SH515*5*XXXX                                       | SH565*5*XXXX                         | SH175*XXX                               |
|                | 8A<br>600V  | 36                    | SH166*36                             | SH196*36                                    | SH516*6*36                                         | SH566*6*36                           |                                         |
|                |             | 72                    | SH166*72                             | SH196*72                                    | SH516*6*72                                         | SH566*6*72                           | SH176*12                                |
|                |             | 144                   | SH166*144                            | SH196*144                                   | SH516*6*144                                        | SH566*6*144                          |                                         |
|                |             | Custom                | SH166*XXXX                           | SH196*XXXX                                  | SH516*6*XXXX                                       | SH566*6*XXXX                         | SH176*XXX                               |

"" - Indicates Gender "P" = Male (Pins) or "S" = Female (Sockets).

XXXX - Indicates "overall length / cable length" in inches.

For mechanical, electrical and wiring sequence see pages 13-15.

# SENSOR-LINK MINI-MIZER® "A" Size LED Cordsets

## MOLDED CONNECTOR ASSEMBLIES



| Face View Female | Rating     | Overall Length Inches | Straight Female LED Single Ended | 90° Female LED Single Ended | Straight Female LED / Straight Male* | 90° Female LED / 90° Male* | Straight Female LED / 90° Male* |
|------------------|------------|-----------------------|----------------------------------|-----------------------------|--------------------------------------|----------------------------|---------------------------------|
|                  | 3A<br>120V | 36                    | 163SL36                          | 183SL36                     | 563S4PL36                            | 543S4PL36                  | 553S4PL36                       |
|                  |            | 72                    | 163SL72                          | 183SL72                     | 563S4PL72                            | 543S4PL72                  | 553S4PL72                       |
|                  |            | 144                   | 163SL144                         | 183SL144                    | 563S4PL144                           | 543S4PL144                 | 553S4PL144                      |
|                  |            | Custom                | 163SLXXXX                        | 183SLXXXX                   | 563S4PLXXXX                          | 543S4PLXXXX                | 553S4PLXXXX                     |

\*On side "B", the male insert has 4 positions.

XXXX – Indicates "overall length" in inches.

For mechanical and electrical specifications see pages 14 & 15.

90° assemblies have key position at 12 o'clock.

# SENSOR-LINK MINI-MIZER®



## MOLDED CONNECTOR ASSEMBLIES

### STANDARD MINI-MIZER

#### WIRING SEQUENCE

Panel Mounts and Cable Assemblies Conductor Color

Code per Contact Position:

#### INDUSTRIAL "A & C" Size

##### 2 CONTACTS

1. WHT
  2. BLK
- 

##### 3 CONTACTS

1. (GROUND) GRN
  2. BLK
  3. WHT
- 

##### 4 CONTACTS

1. BLK
  2. WHT
  3. RED
  4. (GROUND) GRN
- 

##### 5 CONTACTS

1. WHT
  2. RED
  3. (GROUND) GRN
  4. ORG
  5. BLK
- 

##### 6 CONTACTS

1. WHT
  2. RED
  3. (GROUND) GRN
  4. ORG
  5. BLK
  6. BLU
- 

##### 9 CONTACTS

1. ORG
  2. BLU
  3. RED/BLK
  4. GRN/BLK
  5. WHT
  6. RED
  7. (GROUND) GRN
  8. WHT/BLK
  9. BLK
- 

##### 10 CONTACTS

1. ORG
  2. BLU
  3. WHT/BLK
  4. RED/BLK
  5. GRN/BLK
  6. ORG/BLK
  7. RED
  8. (GROUND) GRN
  9. BLK
  10. WHT
- 

##### 12 CONTACTS

1. ORG
  2. BLU
  3. WHT/BLK
  4. RED/BLK
  5. GRN/BLK
  6. ORG/BLK
  7. BLU/BLK
  8. BLK/WHT
  9. (GROUND) GRN
  10. RED
  11. WHT
  12. BLK
- 

##### 19 CONTACTS

1. VIO
  2. RED
  3. GRY
  4. RED/BLU
  5. BLU\*
  6. GRN
  7. BRN\*
  8. WHT/GRN
  9. WHT/YEL
  10. WHT/GRY
  11. BLK
  12. (GROUND) GRN/YEL\*
  13. YEL/BRN
  14. BRN/GRN
  15. WHT
  16. YEL/BRN
  17. PNK
  18. GRY/BRN
  19. GRY/PNK
- 

\* 18 AWG wires  
(other wires are 22 AWG)

#### AUTOMOTIVE "A" Size

##### 3 CONTACTS

1. (GROUND) GRN
  2. RED 2
  3. RED 3
- 

##### 4 CONTACTS

1. RED 1
  2. RED 2
  3. RED 3
  4. (GROUND) GRN
- 

##### 5 CONTACTS

1. RED 1
  2. RED 2
  3. (GROUND) GRN
  4. RED 4
  5. RED 5
- 

For Automotive Color Code Insert  
"A" 164PA36

#### INTERNATIONAL "A" Size

##### 2 CONTACTS

1. BRN
  2. BLU
- 

##### 3 CONTACTS

1. BLK
  2. BRN
  3. BLU
- 

##### 3 CONTACTS\*

1. GRN/YEL
  2. BRN
  3. BLU
- 

##### 4 CONTACTS

1. BLK
  2. BLU
  3. BRN
  4. WHT
- 

##### 5 CONTACTS

1. BLK
  2. BLU
  3. GRN/YEL
  4. BRN
  5. WHT
- 

For International Color Code Insert  
"I" 164PI36

\*For Second International Color  
Code Use "IA" 164PIA36

# SENSOR-LINK MINI-MIZER®

## MOLDED CONNECTOR ASSEMBLIES

### SENSOR LINK PRODUCT LINE

### MINI-MIZER® SPECIFICATIONS

#### STANDARD PANEL MOUNTS:

- 16 AWG, 105C, 600V, PVC Hook-up Wire
- EPTR "Santoprene" Insert
- Lead Length 12 In.
- Epoxy Filled

#### STANDARD CABLE ASSEMBLIES:

- 16 AWG, PVC Yellow Jacketed Cable
- Insert Material
  - Polyurethane ("A" Size)
  - PVC ("C" Size)
- PVC Overmold
- Length 3, 6 and 12 Ft.
  - Options*
    - 16 AWG, Polyurethane Yellow Jacketed Cable  
For Polyurethane Cable add suffix "U"
    - 16 AWG, PVC & Polyurethane Yellow Jacketed  
Shielded Cable  
For Shielded Cable add suffix "S"
- Lengths other than standard
- DeviceNet Gray
  - Add suffix "D1": Thin
  - Add suffix "D2": Thick

#### Y SPLITTER ASSEMBLIES:

- 18 AWG, Polyurethane Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane Overmold

#### TRI CONNECTOR:

- 18 AWG Hook-up Wires
- Polyurethane Insert
- Polyurethane Overmold
  - Options*
    - DeviceNet Gray
  - Add suffix "D1": Thin
  - Add suffix "D2": Thick

#### DUAL CONNECTOR WITH CABLE:

- 18 AWG, Polyurethane Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane Overmold

#### TERMINATOR:

- Resistor 1/4 Watt 121 Ohm 1%
- Polyurethane Insert
- Polyurethane Overmold

#### LED CORDSET:

- 2 High Intensity (700-1,000 mcd) Extended Life Yellow LEDs. (Typical life @ ambient temperature is 100,000 hours)
- 18 AWG, PVC Yellow Jacketed Cable
- PVC Insert
- PVC, Clear Overmold (LED Side Only)
  - Options*
    - 18 AWG, Polyurethane Yellow Jacketed Cable
    - Polyurethane, Clear Overmold (LED Side Only)

**SENSOR LINK  
PRODUCT LINE**

**MINI-MIZER<sup>®</sup> SPECIFICATIONS**

**ELECTRICAL RATING:**

**VOLTAGE:** 600V (NON-LED ASSEMBLIES)  
120V (LED ASSEMBLIES)

**CABLE ASSEMBLIES:**

**COUPLING NUT:** Anodized Aluminum (Optional Nylon and Stainless Steel) Consult Factory

**CONTACTS:** Copper Alloy, Gold-plated

**INSERT:** Polyurethane ("A" Size)  
PVC ("C" Size)

**MOLDED HEADS:** PVC or PUR per Cable Jacket Material

**CABLE:** 16 AWG: PVC Insulated, Fine Stranded Copper Conductors, Yellow Oil Resistant PVC Jacketed  
600V, STO, 105°C.  
18 AWG, 300V, 105°C for Y-splitter & Dual Connector with Cable  
UL Recognized, CSA Certified

**PANEL MOUNT ASSEMBLIES:**

**SHELLS:** Anodized Aluminum (Optional Nylon and Stainless Steel) Consult Factory

**CONTACTS:** Copper Alloy, Gold-plated

**INSERTS:** Ethylene Propylene  
Thermoplastic Rubber  
"Santoprene"

**WIRE:** 16 AWG PVC Insulated, 600V  
UL Recognized, CSA Certified

**ENVIRONMENTAL:**

**PROTECTION:** NEMA 6P, IP67 & IP68

**OPERATING  
AMBIENT:** -20° to 80°C

**CERTIFICATIONS:**

**UL:** UL Recognized, File No. E150822

**CSA:** CSA Certified, FILE No. 181200

**EMI/RFI SHIELDING:**

Meets or Exceeds IEC Directives:

IEC 1000-4-2 ESD, 5KV to 15KV in 2.5KV Steps

IEC 1000-4-3 RFI Immunity, 10V/m

IEC 1000-4-4 Fast Transient, 2K

IEC 1000-4-5 Surge, DC Immunity, 3.1KV

EN50141 Induced RF Immunity, 10V/m



# SENSOR-LINK<sup>®</sup>

## AC METAL MICRO-MIZER<sup>®</sup>

### MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Overall Length Inches | Straight Male Single Ended | Straight Female Single Ended | 90° Male Single Ended | 90° Female Single Ended |
|----------------|------------|-----------------------|----------------------------|------------------------------|-----------------------|-------------------------|
|                | 3A<br>300V | 36                    | 402P36                     | 402S36                       | 462P36                | 462S36                  |
|                |            | 72                    | 402P72                     | 402S72                       | 462P72                | 462S72                  |
|                |            | 144                   | 402P144                    | 402S144                      | 462P144               | 462S144                 |
|                |            | Custom                | 402PXXXX                   | 402SXXXX                     | 462PXXXX              | 462SXXXX                |
|                | 3A<br>300V | 36                    | 403P36                     | 403S36                       | 463P36                | 463S36                  |
|                |            | 72                    | 403P72                     | 403S72                       | 463P72                | 463S72                  |
|                |            | 144                   | 403P144                    | 403S144                      | 463P144               | 463S144                 |
|                |            | Custom                | 403PXXXX                   | 403SXXXX                     | 463PXXXX              | 463SXXXX                |
|                | 3A<br>300V | 36                    | 404P36                     | 404S36                       | 464P36                | 464S36                  |
|                |            | 72                    | 404P72                     | 404S72                       | 464P72                | 464S72                  |
|                |            | 144                   | 404P144                    | 404S144                      | 464P144               | 464S144                 |
|                |            | Custom                | 404PXXXX                   | 404SXXXX                     | 464PXXXX              | 464SXXXX                |
|                | 3A<br>300V | 36                    | 405P36                     | 405S36                       | 465P36                | 465S36                  |
|                |            | 72                    | 405P72                     | 405S72                       | 465P72                | 465S72                  |
|                |            | 144                   | 405P144                    | 405S144                      | 465P144               | 465S144                 |
|                |            | Custom                | 405PXXXX                   | 405SXXXX                     | 465PXXXX              | 465SXXXX                |
|                | 3A<br>300V | 36                    | 406P36                     | 406S36                       | 466P36                | 466S36                  |
|                |            | 72                    | 406P72                     | 406S72                       | 466P72                | 466S72                  |
|                |            | 144                   | 406P144                    | 406S144                      | 466P144               | 466S144                 |
|                |            | Custom                | 406PXXXX                   | 406SXXXX                     | 466PXXXX              | 466SXXXX                |

XXXX – Indicates “overall length” in inches.

For mechanical, electrical and wiring sequence see pages 28 & 29.

90° assemblies have major key position at 6 o'clock (in line with the cable).



Anti-vibration coupling nuts standard.

| Receptacle<br>Male<br>1/4 - 18 NPT<br>12 Inch Leads | Receptacle<br>Female<br>12 Inch Leads | Receptacle<br>Male<br>1/2 - 14 NPT<br>12 Inch Leads | Straight<br>Male / Male<br>Double Ended | Straight<br>Female / Female<br>Double Ended | Straight<br>Male / Female<br>Double Ended |
|-----------------------------------------------------|---------------------------------------|-----------------------------------------------------|-----------------------------------------|---------------------------------------------|-------------------------------------------|
| 412P12                                              | 412S12                                | 412PA12                                             | 472P2P36<br>472P2P72<br>472P2P144       | 472S2S36<br>472S2S72<br>472S2S144           | 472P2S36<br>472P2S72<br>472P2S144         |
| 412PXXX                                             | 412SXXX                               | 412PAXXX                                            | 472P2PXXXX                              | 472S2SXXXX                                  | 472P2SXXXX                                |
| 413P12                                              | 413S12                                | 413PA12                                             | 473P3P36<br>473P3P72<br>473P3P144       | 473S3S36<br>473S3S72<br>473S3S144           | 473P3S36<br>473P3S72<br>473P3S144         |
| 413PXXX                                             | 413SXXX                               | 413PAXXX                                            | 473P3PXXXX                              | 473S3SXXXX                                  | 473P3SXXXX                                |
| 414P12                                              | 414S12                                | 414PA12                                             | 474P4P36<br>474P4P72<br>474P4P144       | 474S4S36<br>474S4S72<br>474S4S144           | 474P4S36<br>474P4S72<br>474P4S144         |
| 414PXXX                                             | 414SXXX                               | 414PAXXX                                            | 474P4PXXXX                              | 474S4SXXXX                                  | 474P4SXXXX                                |
| 415P12                                              | 415S12                                | 415PA12                                             | 475P5P36<br>475P5P72<br>475P5P144       | 475S5S36<br>475S5S72<br>475S5S144           | 475P5S36<br>475P5S72<br>475P5S144         |
| 415PXXX                                             | 415SXXX                               | 415PAXXX                                            | 475P5PXXXX                              | 475S5SXXXX                                  | 475P5SXXXX                                |
| 416P12                                              | 416S12                                | 416PA12                                             | 476P6P36<br>476P6P72<br>476P6P144       | 476S6S36<br>476S6S72<br>476S6S144           | 476P6S36<br>476P6S72<br>476P6S144         |
| 416PXXX                                             | 416SXXX                               | 416PAXXX                                            | 476P6PXXXX                              | 476S6SXXXX                                  | 476P6SXXXX                                |

XXXX - Indicates "overall length / lead length" in inches.  
For mechanical, electrical and wiring sequence see pages 28 & 29.

**PROTECTIVE CAPS**  
FOR EXTERNALLY THREADED  
COUPLING NUTS OR RECEPTACLES



**PROTECTIVE CAP**  
FOR INTERNALLY THREADED  
COUPLING NUTS OR RECEPTACLES



# SENSOR-LINK<sup>®</sup>

## AC METAL MICRO-MIZER<sup>®</sup>

### MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Overall Length Inches | 90° Male/Male Double Ended | 90° Female/Female Double Ended | 90° Male/Female Double Ended | Straight to 90° Male/Female Double Ended | Straight to 90° Female/Male Double Ended |
|----------------|------------|-----------------------|----------------------------|--------------------------------|------------------------------|------------------------------------------|------------------------------------------|
|                | 3A<br>300V | 36                    | 452P2P36                   | 452S2S36                       | 452P2S36                     | 482P2S36                                 | 482S2P36                                 |
|                |            | 72                    | 452P2P72                   | 452S2S72                       | 452P2S72                     | 482P2S72                                 | 482S2P72                                 |
|                |            | 144                   | 452P2P144                  | 452S2S144                      | 452P2S144                    | 482P2S144                                | 482S2P144                                |
|                |            | Custom                | 452P2PXXXX                 | 452S2SXXXX                     | 452P2SXXXX                   | 482P2SXXXX                               | 482S2PXXXX                               |
|                | 3A<br>300V | 36                    | 453P3P36                   | 453S3S36                       | 453P3S36                     | 483P3S36                                 | 483S3P36                                 |
|                |            | 72                    | 453P3P72                   | 453S3S72                       | 453P3S72                     | 483P3S72                                 | 483S3P72                                 |
|                |            | 144                   | 453P3P144                  | 453S3S144                      | 453P3S144                    | 483P3S144                                | 483S3P144                                |
|                |            | Custom                | 453P3PXXXX                 | 453S3SXXXX                     | 453P3SXXXX                   | 483P3SXXXX                               | 483S3PXXXX                               |
|                | 3A<br>300V | 36                    | 454P4P36                   | 454S4S36                       | 454P4S36                     | 484P4S36                                 | 484S4P36                                 |
|                |            | 72                    | 454P4P72                   | 454S4S72                       | 454P4S72                     | 484P4S72                                 | 484S4P72                                 |
|                |            | 144                   | 454P4P144                  | 454S4S144                      | 454P4S144                    | 484P4S144                                | 484S4P144                                |
|                |            | Custom                | 454P4PXXXX                 | 454S4SXXXX                     | 454P4SXXXX                   | 484P4SXXXX                               | 484S4PXXXX                               |
|                | 3A<br>300V | 36                    | 455P5P36                   | 455S5S36                       | 455P5S36                     | 485P5S36                                 | 485S5P36                                 |
|                |            | 72                    | 455P5P72                   | 455S5S72                       | 455P5S72                     | 485P5S72                                 | 485S5P72                                 |
|                |            | 144                   | 455P5P144                  | 455S5S144                      | 455P5S144                    | 485P5S144                                | 485S5P144                                |
|                |            | Custom                | 455P5PXXXX                 | 455S5SXXXX                     | 455P5SXXXX                   | 485P5SXXXX                               | 485S5PXXXX                               |
|                | 3A<br>300V | 36                    | 456P6P36                   | 456S6S36                       | 456P6S36                     | 486P6S36                                 | 486S6P36                                 |
|                |            | 72                    | 456P6P72                   | 456S6S72                       | 456P6S72                     | 486P6S72                                 | 486S6P72                                 |
|                |            | 144                   | 456P6P144                  | 456S6S144                      | 456P6S144                    | 486P6S144                                | 486S6P144                                |
|                |            | Custom                | 456P6PXXXX                 | 456S6SXXXX                     | 456P6SXXXX                   | 486P6SXXXX                               | 486S6PXXXX                               |

XXXX – Indicates “overall length” in inches.

For mechanical, electrical and wiring sequence see pages 28 & 29.

90° assemblies have major key position at 6 o'clock (in line with the cable).

# SENSOR-LINK AC METAL MICRO-MIZER®



## MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Wiring Diagram | Y-Splitter Female/Female/Female | Y-Splitter Male/Female/Female | Y-Connector Female/Female/Female | Y-Connector Male/Female/Female |
|----------------|------------|----------------|---------------------------------|-------------------------------|----------------------------------|--------------------------------|
|                | 3A<br>300V |                | 492S2S2S12<br>492S2S2SXXX       | 492P2S2S12<br>492P2S2SXXX     | 422S2S2S                         | 422P2S2S                       |
|                | 3A<br>300V |                | 493S3S3S12<br>493S3S3SXXX       | 493P3S3S12<br>493P3S3SXXX     | 423S3S3S                         | 423P3S3S                       |
|                | 3A<br>300V |                | 494S4S4S12<br>494S4S4SXXX       | 494P4S4S12<br>494P4S4SXXX     | 424S4S4S                         | 424P4S4S                       |
|                | 3A<br>300V |                | 495S5S5S12<br>495S5S5SXXX       | 495P5S5S12<br>495P5S5SXXX     | 425S5S5S                         | 425P5S5S                       |
|                | 3A<br>300V |                | 496S6S6S12<br>496S6S6SXXX       | 496P6S6S12<br>496P6S6SXXX     | 426S6S6S                         | 426P6S6S                       |

XXX – Indicates “cable length” in inches, other than standard 12 inch length.  
For mechanical, electrical and wiring sequence see pages 28 & 29.  
For insert combinations not shown — consult factory.

# SENSOR-LINK

## DC METAL MICRO-MIZER®

### MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Overall Length Meters | Straight Male Single Ended | Straight Female Single Ended | 90° Male Single Ended | 90° Female Single Ended |
|----------------|------------|-----------------------|----------------------------|------------------------------|-----------------------|-------------------------|
|                | 3A<br>300V | 1                     | 302P1                      | 302S1                        | 342P1                 | 342S1                   |
|                |            | 2                     | 302P2                      | 302S2                        | 342P2                 | 342S2                   |
|                |            | 4                     | 302P4                      | 302S4                        | 342P4                 | 342S4                   |
|                |            | Custom                | 302PXX                     | 302SXX                       | 342PXX                | 342SXX                  |
|                |            |                       |                            |                              |                       |                         |
|                | 3A<br>300V | 1                     | 303P1                      | 303S1                        | 343P1                 | 343S1                   |
|                |            | 2                     | 303P2                      | 303S2                        | 343P2                 | 343S2                   |
|                |            | 4                     | 303P4                      | 303S4                        | 343P4                 | 343S4                   |
|                |            | Custom                | 303PXX                     | 303SXX                       | 343PXX                | 343SXX                  |
|                |            |                       |                            |                              |                       |                         |
|                | 3A<br>300V | 1                     | 304P1                      | 304S1                        | 344P1                 | 344S1                   |
|                |            | 2                     | 304P2                      | 304S2                        | 344P2                 | 344S2                   |
|                |            | 4                     | 304P4                      | 304S4                        | 344P4                 | 344S4                   |
|                |            | Custom                | 304PXX                     | 304SXX                       | 344PXX                | 344SXX                  |
|                |            |                       |                            |                              |                       |                         |
|                | 3A<br>300V | 1                     | 305P1                      | 305S1                        | 345P1                 | 345S1                   |
|                |            | 2                     | 305P2                      | 305S2                        | 345P2                 | 345S2                   |
|                |            | 4                     | 305P4                      | 305S4                        | 345P4                 | 345S4                   |
|                |            | Custom                | 305PXX                     | 305SXX                       | 345PXX                | 345SXX                  |
|                |            |                       |                            |                              |                       |                         |
|                | 2A<br>125V | 1                     | 308P1                      | 308S1                        | 348P1                 | 348S1                   |
|                |            | 2                     | 308P2                      | 308S2                        | 348P2                 | 348S2                   |
|                |            | 4                     | 308P4                      | 308S4                        | 348P4                 | 348S4                   |
|                |            | Custom                | 308PXX                     | 308SXX                       | 348PXX                | 348SXX                  |
|                |            |                       |                            |                              |                       |                         |

Consult Factory  
for 6 & 7 Pole

XX - Indicates "overall length" in meters.  
For mechanical, electrical and wiring sequence see pages 28 & 29.  
90° assemblies have key position at 45 degrees.



Anti-vibration coupling nuts standard.

| Receptacle Male<br>1/4 - 18 NPT<br>.3 Meter Leads | Receptacle Female<br>1/4 - 18 NPT<br>.3 Meter Leads | Receptacle Male<br>1/2 - 14 NPT<br>.3 Meter Leads | Straight Male / Male<br>Double Ended | Straight Female / Female<br>Double Ended | Straight Male / Female<br>Double Ended |
|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------------|
| 312P.3                                            | 312S.3                                              | 312PA.3                                           | 372P2P1                              | 372S2S1                                  | 372P2S1                                |
|                                                   |                                                     |                                                   | 372P2P2                              | 372S2S2                                  | 372P2S2                                |
|                                                   |                                                     |                                                   | 372P2P4                              | 372S2S4                                  | 372P2S4                                |
| 312PXX                                            | 312SXX                                              | 312PAXX                                           | 372P2PXX                             | 372S2SXX                                 | 372P2SXX                               |
|                                                   |                                                     |                                                   | 373P3P1                              | 373S3S1                                  | 373P3S1                                |
|                                                   |                                                     |                                                   | 373P3P2                              | 373S3S2                                  | 373P3S2                                |
|                                                   |                                                     |                                                   | 373P3P4                              | 373S3S4                                  | 373P3S4                                |
| 313PXX                                            | 313SXX                                              | 313PAXX                                           | 373P3PXX                             | 373S3SXX                                 | 373P3SXX                               |
|                                                   |                                                     |                                                   | 374P4P1                              | 374S4S1                                  | 374P4S1                                |
|                                                   |                                                     |                                                   | 374P4P2                              | 374S4S2                                  | 374P4S2                                |
|                                                   |                                                     |                                                   | 374P4P4                              | 374S4S4                                  | 374P4S4                                |
| 314PXX                                            | 314SXX                                              | 314PAXX                                           | 374P4PXX                             | 374S4SXX                                 | 374P4SXX                               |
|                                                   |                                                     |                                                   | 375P5P1                              | 375S5S1                                  | 375P5S1                                |
|                                                   |                                                     |                                                   | 375P5P2                              | 375S5S2                                  | 375P5S2                                |
|                                                   |                                                     |                                                   | 375P5P4                              | 375S5S4                                  | 375P5S4                                |
| 315PXX                                            | 315SXX                                              | 315PAXX                                           | 375P5PXX                             | 375S5SXX                                 | 375P5SXX                               |
|                                                   |                                                     |                                                   | 378P8P1                              | 378S8S1                                  | 378P8S1                                |
|                                                   |                                                     |                                                   | 378P8P2                              | 378S8S2                                  | 378P8S2                                |
|                                                   |                                                     |                                                   | 378P8P4                              | 378S8S4                                  | 378P8S4                                |
| 318PXX                                            | 318SXX                                              | 318PAXX                                           | 378P8PXX                             | 378S8SXX                                 | 378P8SXX                               |

**PROTECTIVE CAPS**  
FOR EXTERNALLY THREADED  
COUPLING NUTS OR RECEPTACLES



**PROTECTIVE CAP**  
FOR INTERNALLY THREADED  
COUPLING NUTS OR RECEPTACLES



XX - Indicates "overall length / lead length" in meters.  
For mechanical, electrical and wiring sequence see pages 28 & 29.

# SENSOR-LINK

## DC METAL MICRO-MIZER®

### MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Overall Length Meters | 90° Male / Male Double Ended | 90° Female / Female Double Ended | 90° Male / Female Double Ended | Straight to 90° Male / Female Double Ended | Straight to 90° Female / Male Double Ended |
|----------------|------------|-----------------------|------------------------------|----------------------------------|--------------------------------|--------------------------------------------|--------------------------------------------|
|                | 3A<br>300V | 1                     | 362P2P1                      | 362S2S1                          | 362P2S1                        | 352P2S1                                    | 352S2P1                                    |
|                |            | 2                     | 362P2P2                      | 362S2S2                          | 362P2S2                        | 352P2S2                                    | 352S2P2                                    |
|                |            | 4                     | 362P2P4                      | 362S2S4                          | 362P2S4                        | 352P2S4                                    | 352S2P4                                    |
|                |            | Custom                | 362P2PXX                     | 362S2SXX                         | 362P2SXX                       | 352P2SXX                                   | 352S2PXX                                   |
|                |            |                       |                              |                                  |                                |                                            |                                            |
|                | 3A<br>300V | 1                     | 363P3P1                      | 363S3S1                          | 363P3S1                        | 353P3S1                                    | 353S3P1                                    |
|                |            | 2                     | 363P3P2                      | 363S3S2                          | 363P3S2                        | 353P3S2                                    | 353S3P2                                    |
|                |            | 4                     | 363P3P4                      | 363S3S4                          | 363P3S4                        | 353P3S4                                    | 353S3P4                                    |
|                |            | Custom                | 363P3PXX                     | 363S3SXX                         | 363P3SXX                       | 353P3SXX                                   | 353S3PXX                                   |
|                |            |                       |                              |                                  |                                |                                            |                                            |
|                | 3A<br>300V | 1                     | 364P4P1                      | 364S4S1                          | 364P4S1                        | 354P4S1                                    | 354S4P1                                    |
|                |            | 2                     | 364P4P2                      | 364S4S2                          | 364P4S2                        | 354P4S2                                    | 354S4P2                                    |
|                |            | 4                     | 364P4P4                      | 364S4S4                          | 364P4S4                        | 354P4S4                                    | 354S4P4                                    |
|                |            | Custom                | 364P4PXX                     | 364S4SXX                         | 364P4SXX                       | 354P4SXX                                   | 354S4PXX                                   |
|                |            |                       |                              |                                  |                                |                                            |                                            |
|                | 3A<br>300V | 1                     | 365P5P1                      | 365S5S1                          | 365P5S1                        | 355P5S1                                    | 355S5P1                                    |
|                |            | 2                     | 365P5P2                      | 365S5S2                          | 365P5S2                        | 355P5S2                                    | 355S5P2                                    |
|                |            | 4                     | 365P5P4                      | 365S5S4                          | 365P5S4                        | 355P5S4                                    | 355S5P4                                    |
|                |            | Custom                | 365P5PXX                     | 365S5SXX                         | 365P5SXX                       | 355P5SXX                                   | 355S5PXX                                   |
|                |            |                       |                              |                                  |                                |                                            |                                            |
|                | 2A<br>125V | 1                     | 368P8P1                      | 368S8S1                          | 368P8S1                        | 358P8S1                                    | 358S8P1                                    |
|                |            | 2                     | 368P8P2                      | 368S8S2                          | 368P8S2                        | 358P8S2                                    | 358S8P2                                    |
|                |            | 4                     | 368P8P4                      | 368S8S4                          | 368P8S4                        | 358P8S4                                    | 358S8P4                                    |
|                |            | Custom                | 368P8PXX                     | 368S8SXX                         | 368P8SXX                       | 358P8SXX                                   | 358S8PXX                                   |
|                |            |                       |                              |                                  |                                |                                            |                                            |

Consult Factory  
for 6 & 7 Pole

XX – Indicates “overall length” in meters.  
For mechanical, electrical and wiring sequence see pages 28 & 29.  
90° assemblies have key position at 45 degrees.

# SENSOR-LINK DC METAL MICRO-MIZER®



## MOLDED CONNECTOR ASSEMBLIES



Anti-vibration coupling nuts standard.

| Face View Male | Rating     | Wiring Diagram | Y-Splitter Female / Female Female | Y-Splitter Male / Female Female | Y-Connector Female / Female Female | Y-Connector Male / Female Female |
|----------------|------------|----------------|-----------------------------------|---------------------------------|------------------------------------|----------------------------------|
|                | 3A<br>300V |                | 392S2S2S.3<br>392S2S2SXX          | 392P2S2S.3<br>392P2S2SXX        | 322S2S2S                           | 322P2S2S                         |
|                | 3A<br>300V |                | 393S3S3S.3<br>393S3S3SXX          | 393P3S3S.3<br>393P3S3SXX        | 323S3S3S                           | 323P3S3S                         |
|                | 3A<br>300V |                | 394S4S4S.3<br>394S4S4SXX          | 394P4S4S.3<br>394P4S4SXX        | 324S4S4S                           | 324P4S4S                         |
|                | 3A<br>300V |                | 395S5S5S.3<br>395S5S5SXX          | 395P5S5S.3<br>395P5S5SXX        | 325S5S5S                           | 325P5S5S                         |
|                | 2A<br>125V |                | 398S8S8S.3<br>398S8S8SXX          | 398P8S8S.3<br>398P8S8SXX        | 328S8S8S                           | 328P8S8S                         |

Consult Factory  
for 6 & 7 Pole

XX – Indicates "cable length" in meters, other than standard .3 meter length.  
For mechanical, electrical and wiring sequence see pages 28 & 29.  
For insert combinations not shown — consult factory.

# SINGLE KEY PLASTIC MICRO-MIZER®

## MOLDED CONNECTOR ASSEMBLIES



| Face View Male | Rating     | Overall Length Meters | Straight Male Single Ended | Straight Female Single Ended | 90° Female Single Ended | Receptacle Male .3 Meter Leads |
|----------------|------------|-----------------------|----------------------------|------------------------------|-------------------------|--------------------------------|
|                | 3A<br>300V | 1                     | 202P1                      | 202S1                        | 232S1                   |                                |
|                |            | 2                     | 202P2                      | 202S2                        | 232S2                   | 212P.3                         |
|                |            | 4                     | 202P4                      | 202S4                        | 232S4                   |                                |
|                |            | Custom                | 202PXX                     | 202SXX                       | 232SXX                  | 21PXX                          |
|                | 3A<br>300V | 1                     | 203P1                      | 203S1                        | 233S1                   |                                |
|                |            | 2                     | 203P2                      | 203S2                        | 233S2                   | 213P.3                         |
|                |            | 4                     | 203P4                      | 203S4                        | 233S4                   |                                |
|                |            | Custom                | 203PXX                     | 203SXX                       | 233SXX                  | 213PXX                         |
|                | 3A<br>300V | 1                     | 204P1                      | 204S1                        | 234S1                   |                                |
|                |            | 2                     | 204P2                      | 204S2                        | 234S2                   | 214P.3                         |
|                |            | 4                     | 204P4                      | 204S4                        | 234S4                   |                                |
|                |            | Custom                | 204PXX                     | 204SXX                       | 234SXX                  | 214PXX                         |
|                | 3A<br>300V | 1                     | 205P1                      | 205S1                        | 235S1                   |                                |
|                |            | 2                     | 205P2                      | 205S2                        | 235S2                   | 215P.3                         |
|                |            | 4                     | 205P4                      | 205S4                        | 235S4                   |                                |
|                |            | Custom                | 205PXX                     | 205SXX                       | 235SXX                  | 215PXX                         |

XX - Indicates "overall length / lead length" in meters.  
For mechanical, electrical and wiring sequence see pages 28 & 29.



See page 19 for Sealing Covers.

| Straight<br>Female / Female<br>Double Ended | Straight<br>Male / Female<br>Double Ended | Straight<br>Male / Male<br>Double Ended | 90°<br>Female / Female<br>Double Ended | Straight to 90°<br>Female / Female<br>Double Ended | Straight to 90°<br>Male / Female<br>Double Ended |
|---------------------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------------------|--------------------------------------------------|
| 242S2S1                                     | 242P2S1                                   | 242P2P1                                 | 262S2S1                                | 272S2S1                                            | 272P2S1                                          |
| 242S2S2                                     | 242P2S2                                   | 242P2P2                                 | 262S2S2                                | 272S2S2                                            | 272P2S2                                          |
| 242S2S4                                     | 242P2S4                                   | 242P2P4                                 | 262S2S4                                | 272S2S4                                            | 272P2S4                                          |
| 242S2SXX                                    | 242P2SXX                                  | 242P2PXX                                | 262S2SXX                               | 272S2SXX                                           | 272P2SXX                                         |
| 243S3S1                                     | 243P3S1                                   | 243P3P1                                 | 263S3S1                                | 273S3S1                                            | 273P3S1                                          |
| 243S3S2                                     | 243P3S2                                   | 243P3P2                                 | 263S3S2                                | 273S3S2                                            | 273P3S2                                          |
| 243S3S4                                     | 243P3S4                                   | 243P3P4                                 | 263S3S4                                | 273S3S4                                            | 273P3S4                                          |
| 243S3SXX                                    | 243P3SXX                                  | 243P3PXX                                | 263S3SXX                               | 273S3SXX                                           | 273P3SXX                                         |
| 244S4S1                                     | 244P4S1                                   | 244P4P1                                 | 264S4S1                                | 274S4S1                                            | 274P4S1                                          |
| 244S4S2                                     | 244P4S2                                   | 244P4P2                                 | 264S4S2                                | 274S4S2                                            | 274P4S2                                          |
| 244S4S4                                     | 244P4S4                                   | 244P4P4                                 | 264S4S4                                | 274S4S4                                            | 274P4S4                                          |
| 244S4SXX                                    | 244P4SXX                                  | 244P4PXX                                | 264S4SXX                               | 274S4SXX                                           | 274P4SXX                                         |
| 245S5S1                                     | 245P5S1                                   | 245P5P1                                 | 265S5S1                                | 275S5S1                                            | 275P5S1                                          |
| 245S5S2                                     | 245P5S2                                   | 245P5P2                                 | 265S5S2                                | 275S5S2                                            | 275P5S2                                          |
| 245S5S4                                     | 245P5S4                                   | 245P5P4                                 | 265S5S4                                | 275S5S4                                            | 275P5S4                                          |
| 245S5SXX                                    | 245P5SXX                                  | 245P5PXX                                | 265S5SXX                               | 275S5SXX                                           | 275P5SXX                                         |

XX – Indicates “overall length” in meters.

For mechanical, electrical and wiring sequence see pages 28 & 29.

# SENSOR-LINK

## DC METAL MICRO-MIZER<sup>®</sup> EMI/RFI SHIELDED

### MOLDED CONNECTOR ASSEMBLIES



| Face View Male | Rating     | Overall Length Meters | Straight Inline Male Single Ended | Straight Female Single Ended | Straight Inline Male Double Ended | Straight Female/Female Double Ended | Straight Male/Female Double Ended | Receptacle Male .3 Meter Leads |
|----------------|------------|-----------------------|-----------------------------------|------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|--------------------------------|
|                | 3A<br>300V | 1                     | SH302P*1                          | SH302S1                      | SH372P2P*1                        | SH372S2S1                           | SH372P2S*1                        |                                |
|                |            | 2                     | SH302P*2                          | SH302S2                      | SH372P2P*2                        | SH372S2S2                           | SH372P2S*2                        | SH312P.3                       |
|                |            | 4                     | SH302P*4                          | SH302S4                      | SH372P2P*4                        | SH372S2S4                           | SH372P2S*4                        |                                |
|                |            | Custom                | SH302P*XX                         | SH302SXX                     | SH372P2P*XX                       | SH372S2SXX                          | SH372P2S*XX                       | SH312PXX                       |
|                |            |                       |                                   |                              |                                   |                                     |                                   |                                |
|                | 3A<br>300V | 1                     | SH303P*1                          | SH303S1                      | SH373P3P*1                        | SH373S3S1                           | SH373P3S*1                        |                                |
|                |            | 2                     | SH303P*2                          | SH303S2                      | SH373P3P*2                        | SH373S3S2                           | SH373P3S*2                        | SH313P.3                       |
|                |            | 4                     | SH303P*4                          | SH303S4                      | SH373P3P*4                        | SH373S3S4                           | SH373P3S*4                        |                                |
|                |            | Custom                | SH303P*XX                         | SH303SXX                     | SH373P3P*XX                       | SH373S3SXX                          | SH373P3S*XX                       | SH313PXX                       |
|                |            |                       |                                   |                              |                                   |                                     |                                   |                                |
|                | 3A<br>300V | 1                     | SH304P*1                          | SH304S1                      | SH374P4P*1                        | SH374S4S1                           | SH374P4S*1                        |                                |
|                |            | 2                     | SH304P*2                          | SH304S2                      | SH374P4P*2                        | SH374S4S2                           | SH374P4S*2                        | SH314P.3                       |
|                |            | 4                     | SH304P*4                          | SH304S4                      | SH374P4P*4                        | SH374S4S4                           | SH374P4S*4                        |                                |
|                |            | Custom                | SH304P*XX                         | SH304SXX                     | SH374P4P*XX                       | SH374S4SXX                          | SH374P4S*XX                       | SH314PXX                       |
|                |            |                       |                                   |                              |                                   |                                     |                                   |                                |
|                | 3A<br>300V | 1                     | SH305P*1                          | SH305S1                      | SH375P5P*1                        | SH375S5S1                           | SH375P5S*1                        |                                |
|                |            | 2                     | SH305P*2                          | SH305S2                      | SH375P5P*2                        | SH375S5S2                           | SH375P5S*2                        | SH315P.3                       |
|                |            | 4                     | SH305P*4                          | SH305S4                      | SH375P5P*4                        | SH375S5S4                           | SH375P5S*4                        |                                |
|                |            | Custom                | SH305P*XX                         | SH305SXX                     | SH375P5P*XX                       | SH375S5SXX                          | SH375P5S*XX                       | SH315PXX                       |
|                |            |                       |                                   |                              |                                   |                                     |                                   |                                |
|                | 2A<br>125V | 1                     | SH308P*1                          | SH308S1                      | SH378P8P*1                        | SH378S8S1                           | SH378P8S*1                        |                                |
|                |            | 2                     | SH308P*2                          | SH308S2                      | SH378P8P*2                        | SH378S8S2                           | SH378P8S*2                        | SH318P.3                       |
|                |            | 4                     | SH308P*4                          | SH308S4                      | SH378P8P*4                        | SH378S8S4                           | SH378P8S*4                        |                                |
|                |            | Custom                | SH308P*XX                         | SH308SXX                     | SH378P8P*XX                       | SH378S8SXX                          | SH378P8S*XX                       | SH318PXX                       |
|                |            |                       |                                   |                              |                                   |                                     |                                   |                                |

Consult Factory for 6 & 7 Pole

XX – Indicates “overall length” in meters.

For mechanical, electrical and wiring sequence see pages 28 & 29.

\* Insert an “R” for Rotating Male Coupling Nut. (Blank is standard for fixed nut.)

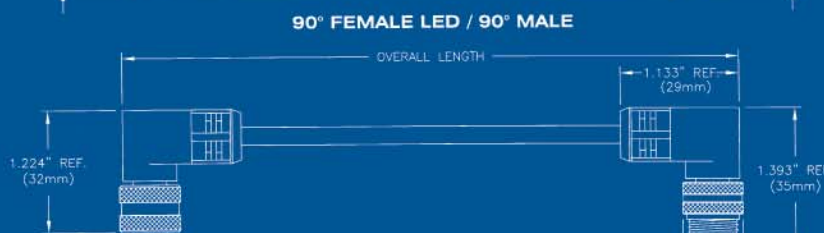
# SENSOR-LINK<sup>®</sup>

## DC METAL MICRO-MIZER<sup>®</sup> LED CORDSETS

### MOLDED CONNECTOR ASSEMBLIES



#### SCHEMATIC DIAGRAM



| Face View Female | Circuit Type | Rating             | Overall Length Meters | Straight Inline Male Single Ended | Straight Female Single Ended | Straight Inline Male Double Ended | Straight Female/Female Double Ended | Straight Male/Female Double Ended |
|------------------|--------------|--------------------|-----------------------|-----------------------------------|------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|
|                  | PNP          | 3A<br>10 to 30V DC | 1                     | 303SL1PNP                         | 343SL1PNP                    | 373S4PL1PNP                       | 363S4PL1PNP                         | 353S4PL1PNP                       |
|                  |              |                    | 2                     | 303SL2PNP                         | 343SL2PNP                    | 373S4PL2PNP                       | 363S4PL2PNP                         | 353S4PL2PNP                       |
|                  |              |                    | 4                     | 303SL4PNP                         | 343SL4PNP                    | 373S4PL4PNP                       | 363S4PL4PNP                         | 353S4PL4PNP                       |
|                  |              |                    | Custom                | 303SLXXPNP                        | 343SLXXPNP                   | 373S4PLXXPNP                      | 363S4PLXXPNP                        | 353S4PLXXPNP                      |
|                  | NPN          | 3A<br>10 to 30V DC | 1                     | 303SL1NPN                         | 343SL1NPN                    | 373S4PL1NPN                       | 363S4PL1NPN                         | 353S4PL1NPN                       |
|                  |              |                    | 2                     | 303SL2NPN                         | 343SL2NPN                    | 373S4PL2NPN                       | 363S4PL2NPN                         | 353S4PL2NPN                       |
|                  |              |                    | 4                     | 303SL4NPN                         | 343SL4NPN                    | 373S4PL4NPN                       | 363S4PL4NPN                         | 353S4PL4NPN                       |
|                  |              |                    | Custom                | 303SLXXNPN                        | 343SLXXNPN                   | 373S4PLXXNPN                      | 363S4PLXXNPN                        | 353S4PLXXNPN                      |

XX – Indicates “overall length” in meters.

Note: Only three of the four positions of the insert are being utilized. Position 2 is a “dummy” contact.

For mechanical and electrical specifications see pages 28 & 29.

90° assemblies have key position at 45 degrees.



# SENSOR-LINK MICRO-MIZER®

## MOLDED CONNECTOR ASSEMBLIES

### STANDARD MINI-MIZER WIRING SEQUENCE

Panel Mounts and Cable Assemblies Conductor  
Color Code per Contact Position:

#### DC

##### 2 CONTACTS

- 3. BRN
- 4. BLU



##### 3 CONTACTS

- 1. BRN
- 3. BLU
- 4. BLK



##### 4 CONTACTS

- 1. BRN
- 2. WHT
- 3. BLU
- 4. BLK



##### 5 CONTACTS

- 1. BRN
- 2. WHT
- 3. BLU
- 4. BLK
- 5. GRY



##### 8 CONTACTS

- 1. WHT
- 2. BRN
- 3. GRN
- 4. YEL
- 5. GRY
- 6. PINK
- 7. BLU
- 8. RED



#### AC

##### 2 CONTACTS

- 1. BRN
- 2. BLU



##### 3 CONTACTS

- 1. GRN
- 2. RED/BLK
- 3. RED/WHT



##### 4 CONTACTS

- 1. RED/BLK
- 2. RED/WHT
- 3. RED
- 4. GRN



##### 5 CONTACTS

- 1. RED/WHT
- 2. RED
- 3. GRN
- 4. RED/YEL
- 5. RED/BLK



##### 6 CONTACTS

- 1. RED/WHT
- 2. RED
- 3. GRN
- 4. RED/YEL
- 5. RED/BLK
- 6. RED/BLU



### SENSOR LINK PRODUCT LINE

### MICRO-MIZER® SPECIFICATIONS

#### STANDARD PANEL MOUNTS:

- 22 AWG, 80°C, 300V, PVC Hook-up Wire
- Nylon Insert
- Lead Length 12 In.
- Epoxy Filled

#### STANDARD AC & DC METAL:

- 22 AWG, PVC Yellow Jacketed Cable
- Nylon Insert ( Black for AC, Yellow for DC)
- PVC, Yellow Overmold
- Length 3, 6 and 12 Ft. for AC 1, 2 and 4 Meters for DC
- Options*
  - 22 AWG, Polyurethane Yellow Jacketed Cable For polyurethane cable add suffix "U"
  - 22 AWG, PVC & Polyurethane Yellow Jacketed Shielded Cable For Shielded Cable add suffix "S"
- Lengths other than standard

#### STANDARD SINGLE KEY PLASTIC:

- 22 AWG, PVC Yellow Jacketed Cable
- Nylon, Black Insert
- PVC, Black Overmold
- Length 1, 2 and 4 Meters
- Options*
  - 22 AWG, Polyurethane Yellow Jacketed Cable For polyurethane cable add suffix "U"
  - 22 AWG, PVC & Polyurethane Yellow Jacketed Shielded Cable For Shielded Cable add suffix "S"
- Lengths other than standard

#### Y-SPLITTER ASSEMBLIES:

- 22 AWG, PVC Yellow Jacketed Cable
- Nylon Insert
- PVC Overmold
- Options*
  - 22 AWG, Polyurethane Yellow Jacketed Cable

#### DC LED CORDSETS:

- 1 Green & 1 Yellow Extended Life LEDs (Typical life @ ambient temperature is 100,000 hours.)
- PNP or NPN
- 22 AWG, PVC Yellow Jacketed Cable
- Nylon Insert
- PVC, Clear Overmold
- Options*
  - 22 AWG, Polyurethane Yellow Jacketed Cable
  - Polyurethane, Clear Overmold

**SENSOR LINK  
PRODUCT LINE**

## MICRO-MIZER® AC/DC METAL AND PLASTIC

### ELECTRICAL RATING

**VOLTAGE:** **Metal/Plastic** (Non-LED Assemblies) - 300V  
**Metal** (LED Assemblies) - 10-30V DC

### CABLE ASSEMBLIES

**COUPLING NUT:** **Metal**-Anodized Aluminum  
**Plastic**-Nylon  
**Optional**-Nickel-plated Brass or Stainless Steel  
(Consult Factory)

**CONTACTS:** **Metal/Plastic**-Copper Alloy, Gold-plated

**INSERT:** **Metal/Plastic**-Nylon

**MOLDED HEADS:** **Metal/Plastic**-PVC

**O-RINGS:** **Metal/Plastic**-Viton

**CABLE:** **Metal/Plastic**-22 AWG: PVC Insulated, Fine Stranded Copper Conductors,  
Yellow Oil Resistant PVC Jacketed 300V, ST, 105°C.  
UL Recognized, CSA Certified

### PANEL MOUNT ASSEMBLIES

**SHELLS:** **Metal**-Anodized Aluminum  
**Plastic**-Nylon

**Optional**-Nickel-plated Brass  
(Consult Factory)

**CONTACTS:** **Metal/Plastic**-Copper Alloy, Gold-plated

**INSERTS:** **Metal**-Nylon

**WIRE:** **Metal/Plastic**-22 AWG PVC Insulated, 300V  
UL Recognized, CSA Certified

### ENVIRONMENTAL

**PROTECTION:** **Metal/Plastic**-NEMA 6P, IP67 & IP68

#### OPERATING

**AMBIENT:** **Metal/Plastic**--20° to 80°C

### CERTIFICATIONS

**UL:** **Metal/Plastic**-UL Recognized,  
File No. E150822

**cUL:** **Metal/Plastic**-Canadian UL Recognized,  
File No. E150822

**CSA:** **Metal/Plastic**-CSA  
Certified File No. 181200

# SENSOR-LINK NANO-MIZER®

## MOLDED CONNECTOR ASSEMBLIES

**STRAIGHT FEMALE SINGLE ENDED  
SNAP LOCK WITH LOCKING RING**



**STRAIGHT MALE SINGLE ENDED  
SNAP LOCK**



**STRAIGHT MALE SINGLE ENDED  
THREADED COUPLING**



**STRAIGHT FEMALE SINGLE ENDED  
THREADED COUPLING**



**STRAIGHT FEMALE DOUBLE ENDED  
THREADED COUPLING**



**STRAIGHT MALE DOUBLE ENDED  
SNAP LOCK**



**STRAIGHT MALE DOUBLE ENDED  
THREADED COUPLING**



**STRAIGHT/90° MALE/FEMALE DOUBLE ENDED  
THREADED COUPLING**



| Coupling Options     |             |                             | Snap Lock<br>Threaded<br>Straight<br>Male<br>Single Ended | Snap Lock<br>w/ Ring<br>Snap Lock<br>Threaded<br>Straight<br>Female<br>Single Ended | Snap Lock<br>w/ Ring<br>Snap Lock<br>Threaded<br>90°<br>Female<br>Single Ended | Receptacle<br>Male<br>.3 Meter Lead | Receptacle<br>Female<br>.3 Meter Lead | Snap Lock<br>Threaded<br>Straight<br>Male/Male<br>Double Ended |
|----------------------|-------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|----------------------------------------------------------------|
| Face<br>View<br>Male | Rating      | Overall<br>Length<br>Meters |                                                           |                                                                                     |                                                                                |                                     |                                       |                                                                |
|                      | 4 A<br>300V | 2                           | 603P*2                                                    | 603S*2*                                                                             | 653S*2*                                                                        |                                     |                                       | 673P3P*2                                                       |
|                      |             | 5                           | 603P*5                                                    | 603S*5*                                                                             | 653S*5*                                                                        | 613P.3                              | 613S.3                                | 673P3P*5                                                       |
|                      |             | 6                           | 603P*6                                                    | 603S*6*                                                                             | 653S*6*                                                                        |                                     |                                       | 673P3P*6                                                       |
|                      |             | Custom                      | 603P*XX                                                   | 603S*XX*                                                                            | 653S*XX*                                                                       | 613PXX                              | 613SXX                                | 673P3P*XX                                                      |
|                      | 4 A<br>300V | 2                           | 604P*2                                                    | 604S*2*                                                                             | 654S*2*                                                                        |                                     |                                       | 674P4P*2                                                       |
|                      |             | 5                           | 604P*5                                                    | 604S*5*                                                                             | 654S*5*                                                                        | 614P.3                              | 614S.3                                | 674P4P*5                                                       |
|                      |             | 6                           | 604P*6                                                    | 604S*6*                                                                             | 654S*6*                                                                        |                                     |                                       | 674P4P*6                                                       |
|                      |             | Custom                      | 604P*XX                                                   | 604S*XX*                                                                            | 654S*XX*                                                                       | 614PXX                              | 614SXX                                | 674P4P*XX                                                      |

For mechanical, electrical and wiring sequence see page 33.

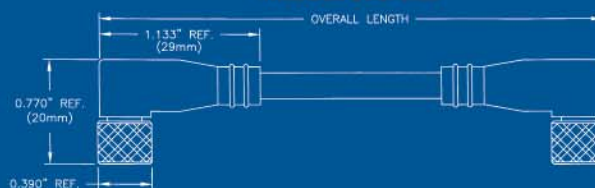
**90° FEMALE SINGLE ENDED  
THREADED COUPLING**



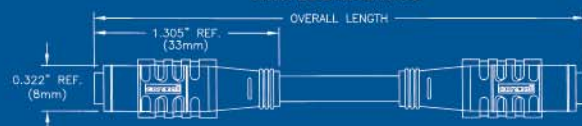
**90° FEMALE SINGLE ENDED SNAP LOCK  
WITH LOCKING RING**



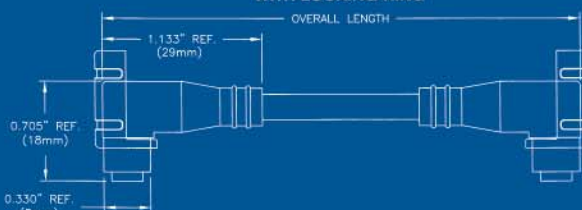
**90° FEMALE DOUBLE ENDED  
THREADED COUPLING**



**STRAIGHT FEMALE DOUBLE ENDED SNAP LOCK  
WITH LOCKING RING**



**90° FEMALE DOUBLE ENDED SNAP LOCK  
WITH LOCKING RING**



**MALE RECEPTACLE**



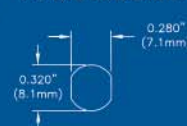
**TYPICAL KNOCKOUT**



**FEMALE RECEPTACLE**



**TYPICAL KNOCKOUT**



| Snap Lock<br>w/ Ring                      | Snap Lock<br>w/ Ring                    | Snap Lock<br>w/ Ring                 | Snap Lock<br>w/ Ring                              | Snap Lock<br>w/ Ring                           |
|-------------------------------------------|-----------------------------------------|--------------------------------------|---------------------------------------------------|------------------------------------------------|
| Snap Lock                                 | Snap Lock                               | Snap Lock                            | Snap Lock                                         | Snap Lock                                      |
| Threaded                                  | Threaded                                | Threaded                             | Threaded                                          | Threaded                                       |
| Straight<br>Female/Female<br>Double Ended | Straight<br>Female/Male<br>Double Ended | 90°<br>Female/Female<br>Double Ended | Straight to 90°<br>Female/Female<br>Double Ended` | Straight to 90°<br>Male/Female<br>Double Ended |
| 673S3S*2*                                 | 673S3P*2*                               | 663S3S*2*                            | 683S3S*2*                                         | 683P3S*2*                                      |
| 673S3S*5*                                 | 673S3P*5*                               | 663S3S*5*                            | 683S3S*5*                                         | 683P3S*5*                                      |
| 673S3S*6*                                 | 673S3P*6*                               | 663S3S*6*                            | 683S3S*6*                                         | 683P3S*6*                                      |
| 673S3S*XX*                                | 673S3P*XX*                              | 663S3S*XX*                           | 683S3S*XX*                                        | 683P3S*XX*                                     |
| 674S4S*2*                                 | 674S4P*2*                               | 664S4S*2*                            | 684S4S*2*                                         | 684P4S*2*                                      |
| 674S4S*5*                                 | 674S4P*5*                               | 664S4S*5*                            | 684S4S*5*                                         | 684P4S*5*                                      |
| 674S4S*6*                                 | 674S4P*6*                               | 664S4S*6*                            | 684S4S*6*                                         | 684P4S*6*                                      |
| 674S4S*XX*                                | 674S4P*XX*                              | 664S4S*XX*                           | 684S4S*XX*                                        | 684P4S*XX*                                     |

**Coupling Code Example:**

604SS2L = Snap Lock with Locking Ring  
604SS2 = Snap Lock without Locking Ring  
604SI2 = Threaded

**Note:** XX - Indicates "overall length /  
lead length" in meters

**Ordering Code Example:**

683P3S \* XX \*  
Optional  
L = Locking Ring  
Length in  
Meters  
S = Snap Lock  
T = Threaded

# SENSOR-LINK NANO-MIZER<sup>®</sup> EMI/RFI SHIELDED MOLDED CONNECTOR ASSEMBLIES



| Face View Male | Rating     | Overall Length Meters | Straight Inline Male Single Ended | Straight Female Single Ended | Straight Inline Male Double Ended | Straight Female/Female Double Ended | Straight Female/Male Double Ended | Receptacle Male .3 Meter Leads |
|----------------|------------|-----------------------|-----------------------------------|------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|--------------------------------|
|                | 4A<br>125V | 2                     | SH603PT2                          | SH603ST2                     | SH673P3PT2                        | SH673S3ST2                          | SH673S3PT2                        |                                |
|                |            | 5                     | SH603PT5                          | SH603ST5                     | SH673P3PT5                        | SH673S3ST5                          | SH673S3PT5                        | SH613P.3                       |
|                |            | 6                     | SH603PT6                          | SH603ST6                     | SH673P3PT6                        | SH673S3ST6                          | SH673S3PT6                        |                                |
|                |            | Custom                | SH603PTXX                         | SH603STXX                    | SH673P3PTXX                       | SH673S3STXX                         | SH673S3PTXX                       | SH613PXX                       |
|                | 4A<br>125V | 2                     | SH604PT2                          | SH604ST2                     | SH674P4PT2                        | SH674S4ST2                          | SH674S4PT2                        |                                |
|                |            | 5                     | SH604PT5                          | SH604ST5                     | SH674P4PT5                        | SH674S4ST5                          | SH674S4PT5                        | SH614P.3                       |
|                |            | 6                     | SH604PT6                          | SH604ST6                     | SH674P4PT6                        | SH674S4ST6                          | SH674S4PT6                        |                                |
|                |            | Custom                | SH604PTXX                         | SH603STXX                    | SH674P4PTXX                       | SH674S4STXX                         | SH674S4PTXX                       | SH614PXX                       |

For mechanical, electrical and wiring sequence see page 33.

# SENSOR-LINK NANO-MIZER®



## MOLDED CONNECTOR ASSEMBLIES

### SENSOR LINK PRODUCT LINE NANO-MIZER® SPECIFICATIONS

#### ELECTRICAL RATING

**VOLTAGE:** 300V, 4 Amps (Non-Shielded);  
125V, 4 Amps (Shielded)

#### CABLE ASSEMBLIES

**COUPLING NUT:** Nickel Plated Brass  
**CONTACTS:** Copper Alloy, Gold-Plated  
**INSERT:** G.F. Nylon  
**MOLDED HEADS:** PVC  
**O-RINGS:** Viton  
**CABLE:** .25mm<sup>2</sup> (or approximately 24 AWG) PVC  
Insulated, Fine Stranded Copper  
Conductors, Yellow Oil Resistant  
PVC Jacketed 300V, ST, 105°C.  
UL Recognized,  
CSA Certified

#### PANEL MOUNT ASSEMBLIES

**SHELLS:** Nickel plated brass  
**CONTACTS:** Copper Alloy Gold-Plated  
**INSERTS:** G.F. Nylon  
**WIRE:** 24 AWG PVC Insulated,  
300V UL Recognized,  
CSA Certified

#### ENVIRONMENTAL

**PROTECTION:** NEMA 6P, IP67 & IP68

**OPERATING AMBIENT:** -20° to 105°C

#### CERTIFICATIONS

**UL:** UL Recognized, File No. E-150822

**CSA:** CSA Certified File No. 181200

#### STANDARD NANO-MIZER WIRING SEQUENCE

Panel Mounts and Cable  
Assemblies Conductor Color  
Code per Contact Position:

##### 3 CONTACTS

1. BRN  
3. BLU  
4. BLK



##### 4 CONTACTS

1. BRN  
2. WHT  
3. BLU  
4. BLK



# SENSOR-LINK DIE BLOCK CONNECTORS

## MOLDED CONNECTOR ASSEMBLIES



| Rating | Cable Length Feet | 3-Pole Yellow 90° Female Die Block | 3-Pole Blue 90° Female Die Block | 4-Pole Yellow 90° Female Die Block | 4-Pole Blue 90° Female Die Block |
|--------|-------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|
| 7.5A   | 6                 | DBR3S3-6                           | DBR3S2-6                         | DBR4S3-6                           | DBR4S2-6                         |
|        | 10                | DBR3S3-10                          | DBR3S2-10                        | DBR4S3-10                          | DBR4S2-10                        |
| 300VAC | 12                | DBR3S3-12                          | DBR3S2-12                        | DBR4S3-12                          | DBR4S2-12                        |
| 24VDC  | 20                | DBR3S3-20                          | DBR3S2-20                        | DBR4S3-20                          | DBR4S2-20                        |
|        | Custom            | DBR3S3-XX                          | DBR3S2-XX                        | DBR4S3-XX                          | DBR4S2-XX                        |



| # Of Poles | Rating | Cable Length Feet | Yellow Straight Female Mini-Mizer to Straight Male Die Block | Blue Straight Female Mini-Mizer to Straight Male Die Block | Yellow Straight Male Mini-Mizer to 90° Female Die Block | Blue Straight Male Mini-Mizer to 90° Female Die Block |
|------------|--------|-------------------|--------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|
| 4          | 7.5A   | 1                 | DB20S4SS4P3-1                                                | DB20S4SS4P2-1                                              | DB20S4PR4S3-1                                           | DB20S4PR4S2-1                                         |
|            |        | 2                 | DB20S4SS4P3-2                                                | DB20S4SS4P2-2                                              | DB20S4PR4S3-2                                           | DB20S4PR4S2-2                                         |
|            | 300VAC | 3                 | DB20S4SS4P3-3                                                | DB20S4SS4P2-3                                              | DB20S4PR4S3-3                                           | DB20S4PR4S2-3                                         |
|            |        | 4                 | DB20S4SS4P3-4                                                | DB20S4SS4P2-4                                              | DB20S4PR4S3-4                                           | DB20S4PR4S2-4                                         |
|            | 24VDC  | 6                 | DB20S4SS4P3-6                                                | DB20S4SS4P2-6                                              | DB20S4PR4S3-6                                           | DB20S4PR4S2-6                                         |
|            |        | 12                | DB20S4SS4P3-12                                               | DB20S4SS4P2-12                                             | DB20S4PR4S3-12                                          | DB20S4PR4S2-12                                        |
|            |        | Custom            | DB20S4SS4P3-XX                                               | DB20S4SS4P2-XX                                             | DB20S4PR4S3-XX                                          | DB20S4PR4S2-XX                                        |

XX - Indicates "Overall Length" in feet.  
For mechanical, electrical and wiring sequence see page 37.



| # Of Poles | Rating          | Cable Length Feet | Yellow Straight Female AC Micro-Mizer to Straight Male Die Block | Red Straight Female AC Micro-Mizer to Straight Male Die Block | Yellow Straight Female AC Micro-Mizer to 90° Female Die Block | Red Straight Female AC Micro-Mizer to 90° Female Die Block |
|------------|-----------------|-------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| 3          | 300VAC<br>24VDC | 1                 | DB40S3SS3P3-1                                                    | DB40S3SS3P1-1                                                 | DB40S3SR3S3-1                                                 | DB40S3SR3S1-1                                              |
|            |                 | 2                 | DB40S3SS3P3-2                                                    | DB40S3SS3P1-2                                                 | DB40S3SR3S3-2                                                 | DB40S3SR3S1-2                                              |
|            |                 | 3                 | DB40S3SS3P3-3                                                    | DB40S3SS3P1-3                                                 | DB40S3SR3S3-3                                                 | DB40S3SR3S1-3                                              |
|            |                 | 4                 | DB40S3SS3P3-4                                                    | DB40S3SS3P1-4                                                 | DB40S3SR3S3-4                                                 | DB40S3SR3S1-4                                              |
|            |                 | 6                 | DB40S3SS3P3-6                                                    | DB40S3SS3P1-6                                                 | DB40S3SR3S3-6                                                 | DB40S3SR3S1-6                                              |
|            |                 | 12                | DB40S3SS3P3-12                                                   | DB40S3SS3P1-12                                                | DB40S3SR3S3-12                                                | DB40S3SR3S1-12                                             |
|            |                 | Custom            | DB40S3SS3P3-XX                                                   | DB40S3SS3P1-XX                                                | DB40S3SR3S3-XX                                                | DB40S3SR3S1-XX                                             |
| 4          | 300VAC<br>24VDC | 1                 | DB40S4SS4P3-1                                                    | DB40S4SS4P1-1                                                 | DB40S4SR4S3-1                                                 | DB40S4SR4S1-1                                              |
|            |                 | 2                 | DB40S4SS4P3-2                                                    | DB40S4SS4P1-2                                                 | DB40S4SR4S3-2                                                 | DB40S4SR4S1-2                                              |
|            |                 | 3                 | DB40S4SS4P3-3                                                    | DB40S4SS4P1-3                                                 | DB40S4SR4S3-3                                                 | DB40S4SR4S1-3                                              |
|            |                 | 4                 | DB40S4SS4P3-4                                                    | DB40S4SS4P1-4                                                 | DB40S4SR4S3-4                                                 | DB40S4SR4S1-4                                              |
|            |                 | 6                 | DB40S4SS4P3-6                                                    | DB40S4SS4P1-6                                                 | DB40S4SR4S3-6                                                 | DB40S4SR4S1-6                                              |
|            |                 | 12                | DB40S4SS4P3-12                                                   | DB40S4SS4P1-12                                                | DB40S4SR4S3-12                                                | DB40S4SR4S1-12                                             |
|            |                 | Custom            | DB40S4SS4P3-XX                                                   | DB40S4SS4P1-XX                                                | DB40S4SR4S3-XX                                                | DB40S4SR4S1-XX                                             |

XX - Indicates "Overall Length" in feet.

For mechanical, electrical and wiring sequence see page 37.

# SENSOR-LINK DIE BLOCK CONNECTORS

## MOLDED CONNECTOR ASSEMBLIES



| # Of Poles | Rating          | Cable Length Feet | Yellow<br>Straight Female<br>DC Micro-Mizer to<br>Straight Male<br>Die Block | Blue<br>Straight Female<br>DC Micro-Mizer to<br>Straight Male<br>Die Block | Yellow<br>Straight Female<br>DC Micro-Mizer to<br>90° Female<br>Die Block | Blue<br>Straight Female<br>DC Micro-Mizer to<br>90° Female<br>Die Block |
|------------|-----------------|-------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 3          | 300VAC<br>24VDC | 1                 | DB30S3SS3P3-1                                                                | DB30S3SS3P2-1                                                              | DB30S3SR3S3-1                                                             | DB30S3SR3S2-1                                                           |
|            |                 | 2                 | DB30S3SS3P3-2                                                                | DB30S3SS3P2-2                                                              | DB30S3SR3S3-2                                                             | DB30S3SR3S2-2                                                           |
|            |                 | 3                 | DB30S3SS3P3-3                                                                | DB30S3SS3P2-3                                                              | DB30S3SR3S3-3                                                             | DB30S3SR3S2-3                                                           |
|            |                 | 4                 | DB30S3SS3P3-4                                                                | DB30S3SS3P2-4                                                              | DB30S3SR3S3-4                                                             | DB30S3SR3S2-4                                                           |
|            |                 | 6                 | DB30S3SS3P3-6                                                                | DB30S3SS3P2-6                                                              | DB30S3SR3S3-6                                                             | DB30S3SR3S2-6                                                           |
|            |                 | 12                | DB30S3SS3P3-12                                                               | DB30S3SS3P2-12                                                             | DB30S3SR3S3-12                                                            | DB30S3SR3S2-12                                                          |
|            |                 | Custom            | DB30S3SS3P3-XX                                                               | DB30S3SS3P2-XX                                                             | DB30S3SR3S3-XX                                                            | DB30S3SR3S2-XX                                                          |
| 4          | 300VAC<br>24VDC | 1                 | DB30S4SS4P3-1                                                                | DB30S4SS4P2-1                                                              | DB30S4SR4S3-1                                                             | DB30S4SR4S2-1                                                           |
|            |                 | 2                 | DB30S4SS4P3-2                                                                | DB30S4SS4P2-2                                                              | DB30S4SR4S3-2                                                             | DB30S4SR4S2-2                                                           |
|            |                 | 3                 | DB30S4SS4P3-3                                                                | DB30S4SS4P2-3                                                              | DB30S4SR4S3-3                                                             | DB30S4SR4S2-3                                                           |
|            |                 | 4                 | DB30S4SS4P3-4                                                                | DB30S4SS4P2-4                                                              | DB30S4SR4S3-4                                                             | DB30S4SR4S2-4                                                           |
|            |                 | 6                 | DB30S4SS4P3-6                                                                | DB30S4SS4P2-6                                                              | DB30S4SR4S3-6                                                             | DB30S4SR4S2-6                                                           |
|            |                 | 12                | DB30S4SS4P3-12                                                               | DB30S4SS4P2-12                                                             | DB30S4SR4S3-12                                                            | DB30S4SR4S2-12                                                          |
|            |                 | Custom            | DB30S4SS4P3-XX                                                               | DB30S4SS4P2-XX                                                             | DB30S4SR4S3-XX                                                            | DB30S4SR4S2-XX                                                          |

XX - Indicates "Overall Length" in feet.  
For mechanical, electrical and wiring sequence see page 37.

# SENSOR-LINK DIE BLOCK CONNECTORS



## MOLDED CONNECTOR ASSEMBLIES

### SENSOR LINK PRODUCT LINE DIE BLOCK CONNECTORS SPECIFICATIONS

#### ELECTRICAL RATING

**VOLTAGE:** 300 VAC  
24 VDC

#### MATERIALS

**COUPLING NUT:** Anodized Aluminum  
**CONTACTS:** Copper Alloy, Gold-Plated  
**MOLDED HEADS:** Polyurethane  
**O-RINGS:** Viton  
**CABLE:** 18 AWG, PVC Yellow Jacket Cable  
**BUSHINGS:** Stainless Steel

#### STANDARD DIE BLOCK CONNECTOR WIRING SEQUENCE

Assembly Conductor Color Code per Contact Position:  
(Below diagrams reflect Face View Female view)

##### Single Ended Die Block

#### 3 Pole:

A BRN  
B BLU  
C BLK



#### 4 Pole:

A RED/BLK  
B RED/WHT  
C RED  
D GRN



##### 4-Pole Mini-Mizer to Die Block

1 RED/BLK  
2 RED/WHT  
3 RED  
4 GRN



A RED/BLK  
B RED/WHT  
C RED  
D GRN



#### STANDARD DIE BLOCK CONNECTOR WIRING SEQUENCE (continued)

##### AC Micro-Mizer to Die Block

#### 3 Pole:

|   |         |   |         |
|---|---------|---|---------|
| 1 | GRN     | A | GRN     |
| 2 | RED/WHT | B | RED/WHT |
| 3 | RED/BLK | C | RED/BLK |



("D" Position of a 3-pole female die block is molded open to accept a 4-pole mate.)

#### 4 Pole:

|   |         |   |         |
|---|---------|---|---------|
| 1 | RED/BLK | A | RED/BLK |
| 2 | RED/WHT | B | RED/WHT |
| 3 | RED     | C | RED     |
| 4 | GRN     | D | GRN     |



##### DC Micro-Mizer to Die Block

#### 3 Pole:

|   |     |   |     |
|---|-----|---|-----|
| 1 | BRN | A | BRN |
| 2 | BLU | B | BLU |
| 3 | BLK | C | BLK |



("D" Position of a 3-pole female die block is molded open to accept a 4-pole mate.)

#### 4 Pole:

|   |     |   |     |
|---|-----|---|-----|
| 1 | BRN | A | BLK |
| 2 | WHT | B | BLU |
| 3 | BLU | C | WHT |
| 4 | BLK | D | BRN |



# SENSOR-LINK MULTI-PORT "A" Size MINI-MIZER®

## JUNCTION BOXES



## Junction Box P/N Sequence

| JM 08 5S N M15 A 1                  |                                                  |
|-------------------------------------|--------------------------------------------------|
| <b>Number of Ports:</b>             | <b>Wiring</b>                                    |
| <b>Number of Contacts per Port:</b> | 11 – Series No Power LED & No Port LEDs          |
| <b>Port Thread Type</b>             | 12 – Parallel No Power LED & No Port LEDs        |
| External                            | 13 – Series w/Power LED & No Port LEDs           |
| Internal                            | 14 – Parallel w/Power LED & No Port LEDs         |
| <b>Type of Input</b>                | 15 – Series w/Power LED & Port LEDs              |
| <b>Box Mounted Connector</b>        | 16 – Parallel w/Power LED & Port LEDs            |
| Number of Pin Contacts (2 thru 12)  | <b>Cable Mounted Connector Type</b>              |
| OR                                  | Blank – No Connector Provided                    |
| <b>Box Mounted Cable</b>            | A – Mini A-Size (Same as # of Contacts in Ports) |
| IXX – Cable Length in Inches        | B – Mini C-Size (12 for Standard, 19 for Twin)   |

# SENSOR-LINK MULTI-PORT "A" Size MINI-MIZER<sup>®</sup>



## JUNCTION BOXES

### SENSOR LINK PRODUCT LINE

### MULTI-PORT "A" Size MINI-MIZER<sup>®</sup> JUNCTION BOXES

#### FEATURES

- 2, 3, 4, 5, 6 pole "A" Size Mini-Mizer I/O ports.
- Available in 4, 6, & 8 ports.
- Internally or externally threaded ports.
- Home Run Connector or Home Run Cable.
- Home Run Connector available in "A" & "C" Size Mini-Mizer.
- 36, 72, or 144 inch standard cable lengths.
- Customer specified lengths available upon request.
- Wiring can be parallel or series.
- Assemblies are epoxy sealed.
- Available with or without LEDs
- Uses standard cables, "Y" connectors and splitters available from Conxall.
- Port environmental covers are available.

#### SPECIFICATIONS

- Junction Box is rated at 7 amps at 600 volts.
- Temperature rating: -20° C - +80° C.
- UL Recognized, File number E150822.
- Meets IP68 requirements.

#### MATERIALS

- Enclosure - PBT plastic
- Receptacle Shells - Anodized aluminum
- Consult factory for stainless steel or nickel plated brass receptacle shells.
- Contacts - Gold over nickel plated copper alloy
- Cable - 16 AWG, PVC Yellow Jacketed
- Connector Inserts - Santoprene

**Consult factory for wiring diagrams.**

**Consult factory for customization.**

# SENSOR-LINK MULTI-PORT DC MICRO-MIZER®

## JUNCTION BOXES

MICRO JUNCTION BOX W/ MINI-MIZER CONNECTOR



### PNP CIRCUIT [current sinking] / NORMALLY OPEN OR NORMALLY CLOSED [1 green LED per box - power indicator / 1 yellow LED per port - I/O indicator]

| # OF PORTS | N/O - N/C | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER  |
|------------|-----------|--------------|-------------------|-----------|--------------|
| 8          | OPEN      | 1            | NONE              | 4         | JD085SNM15   |
| 8          | OPEN      | 5            | NONE              | 4         | JD085SNM55   |
| 8          | OPEN      | 10           | NONE              | 4         | JD085SNM105  |
| 8          | OPEN      | 1            | 12 POLE MALE MINI | 4         | JD085SNM1B5  |
| 8          | OPEN      | 5            | 12 POLE MALE MINI | 4         | JD085SNM5B5  |
| 8          | OPEN      | 10           | 12 POLE MALE MINI | 4         | JD085SNM10B5 |
| 8          | CLOSED    | 1            | NONE              | 2         | JD085SNM16   |
| 8          | CLOSED    | 5            | NONE              | 2         | JD085SNM56   |
| 8          | CLOSED    | 10           | NONE              | 2         | JD085SNM106  |
| 8          | CLOSED    | 1            | 12 POLE MALE MINI | 2         | JD085SNM1B6  |
| 8          | CLOSED    | 5            | 12 POLE MALE MINI | 2         | JD085SNM5B6  |
| 8          | CLOSED    | 10           | 12 POLE MALE MINI | 2         | JD085SNM10B6 |

### NPN CIRCUIT [current sourcing] / NORMALLY OPEN OR NORMALLY CLOSED [1 green LED per box - power indicator / 1 yellow LED per port - I/O indicator]

| # OF PORTS | N/O - N/C | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER  |
|------------|-----------|--------------|-------------------|-----------|--------------|
| 8          | OPEN      | 1            | NONE              | 4         | JD085SNM13   |
| 8          | OPEN      | 5            | NONE              | 4         | JD085SNM53   |
| 8          | OPEN      | 10           | NONE              | 4         | JD085SNM103  |
| 8          | OPEN      | 1            | 12 POLE MALE MINI | 4         | JD085SNM1B3  |
| 8          | OPEN      | 5            | 12 POLE MALE MINI | 4         | JD085SNM5B3  |
| 8          | OPEN      | 10           | 12 POLE MALE MINI | 4         | JD085SNM10B3 |
| 8          | CLOSED    | 1            | NONE              | 2         | JD085SNM14   |
| 8          | CLOSED    | 5            | NONE              | 2         | JD085SNM54   |
| 8          | CLOSED    | 10           | NONE              | 2         | JD085SNM104  |
| 8          | CLOSED    | 1            | 12 POLE MALE MINI | 2         | JD085SNM1B4  |
| 8          | CLOSED    | 5            | 12 POLE MALE MINI | 2         | JD085SNM5B4  |
| 8          | CLOSED    | 10           | 12 POLE MALE MINI | 2         | JD085SNM10B4 |



### TWIN WIRED PNP CIRCUIT [current sinking]

[1 green LED per box - power indicator / 2 yellow LED per port - I/O indicator]

| # OF PORTS | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER  |
|------------|--------------|-------------------|-----------|--------------|
| 8          | 1            | NONE              | 2 & 4     | JD085SNM18   |
| 8          | 5            | NONE              | 2 & 4     | JD085SNM58   |
| 8          | 10           | NONE              | 2 & 4     | JD085SNM108  |
| 8          | 1            | 19 POLE MALE MINI | 2 & 4     | JD085SNM1B8  |
| 8          | 5            | 19 POLE MALE MINI | 2 & 4     | JD085SNM5B8  |
| 8          | 10           | 19 POLE MALE MINI | 2 & 4     | JD085SNM10B8 |

### TWIN WIRED NPN CIRCUIT [current sourcing]

[1 green LED per box - power indicator / 2 yellow LED per port - I/O indicator]

| # OF PORTS | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER  |
|------------|--------------|-------------------|-----------|--------------|
| 8          | 1            | NONE              | 2 & 4     | JD085SNM17   |
| 8          | 5            | NONE              | 2 & 4     | JD085SNM57   |
| 8          | 10           | NONE              | 2 & 4     | JD085SNM107  |
| 8          | 1            | 19 POLE MALE MINI | 2 & 4     | JD085SNM1B7  |
| 8          | 5            | 19 POLE MALE MINI | 2 & 4     | JD085SNM5B7  |
| 8          | 10           | 19 POLE MALE MINI | 2 & 4     | JD085SNM10B7 |

### POWER LED ONLY - NORMALLY OPEN OR NORMALLY CLOSED

[1 green LED per box - power indicator / no port I/O LED indicator]

| # OF PORTS | N/O - N/C | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER   |
|------------|-----------|--------------|-------------------|-----------|---------------|
| 8          | OPEN      | 1            | NONE              | 4         | JD085SNM19    |
| 8          | OPEN      | 5            | NONE              | 4         | JD085SNM59    |
| 8          | OPEN      | 10           | NONE              | 4         | JD085SNM109   |
| 8          | OPEN      | 1            | 12 POLE MALE MINI | 4         | JD085SNM1B9   |
| 8          | OPEN      | 5            | 12 POLE MALE MINI | 4         | JD085SNM5B9   |
| 8          | OPEN      | 10           | 12 POLE MALE MINI | 4         | JD085SNM10B9  |
| 8          | CLOSED    | 1            | NONE              | 2         | JD085SNM110   |
| 8          | CLOSED    | 5            | NONE              | 2         | JD085SNM510   |
| 8          | CLOSED    | 10           | NONE              | 2         | JD085SNM1010  |
| 8          | CLOSED    | 1            | 12 POLE MALE MINI | 2         | JD085SNM1B10  |
| 8          | CLOSED    | 5            | 12 POLE MALE MINI | 2         | JD085SNM5B10  |
| 8          | CLOSED    | 10           | 12 POLE MALE MINI | 2         | JD085SNM10B10 |

### NO LED - NORMALLY OPEN OR NORMALLY CLOSED

[no box LED power indicator / no port I/O LED indicator]

| # OF PORTS | N/O - N/C | CABLE LENGTH | CONNECTOR         | I/O PIN # | PART NUMBER  |
|------------|-----------|--------------|-------------------|-----------|--------------|
| 8          | OPEN      | 1            | NONE              | 4         | JD085SNM11   |
| 8          | OPEN      | 5            | NONE              | 4         | JD085SNM51   |
| 8          | OPEN      | 10           | NONE              | 4         | JD085SNM101  |
| 8          | OPEN      | 1            | 12 POLE MALE MINI | 4         | JD085SNM1B1  |
| 8          | OPEN      | 5            | 12 POLE MALE MINI | 4         | JD085SNM5B1  |
| 8          | OPEN      | 10           | 12 POLE MALE MINI | 4         | JD085SNM10B1 |
| 8          | CLOSED    | 1            | NONE              | 2         | JD085SNM12   |
| 8          | CLOSED    | 5            | NONE              | 2         | JD085SNM52   |
| 8          | CLOSED    | 10           | NONE              | 2         | JD085SNM102  |
| 8          | CLOSED    | 1            | 12 POLE MALE MINI | 2         | JD085SNM1B2  |
| 8          | CLOSED    | 5            | 12 POLE MALE MINI | 2         | JD085SNM5B2  |
| 8          | CLOSED    | 10           | 12 POLE MALE MINI | 2         | JD085SNM10B2 |

# SENSOR-LINK MULTI-PORT DC MICRO-MIZER®

## JUNCTION BOXES

### SENSOR LINK PRODUCT LINE

### MULTI-PORT DC MICRO-MIZER® JUNCTION BOXES

#### FEATURES

- 5 pole 12 mm DC Micro I/O ports.
- Blunt cut cable, 12 pole male connector or 19 pole male connector options.
- 1, 5, or 10 meter standard cable lengths.
- Customer specified lengths available upon request.
- PNP (current sinking) or NPN (current sourcing) options.
- Normally Open (pin #4) or Normally Closed (pin #2) wiring options.
- Port designation tabs included.
- Environmental port covers included.
- Assemblies are epoxy sealed.
- Available with 2 I/O LEDs per port, 1 I/O LED per port, power LED only, or no LEDs.
- Custom assemblies built to customer specifications upon request.
- Uses standard cables, Y connectors, and splitters available from Conxall.

#### SPECIFICATIONS

- Individual ports are rated at 4 amps at 30 volts.
- Junction box is rated at 12 amps at 30 volts.
- Temperature rating: -20° C - +80° C.
- UL Recognized, File number E150822.
- Meets IP68 requirements.

#### MATERIALS

- Enclosure - Modified PPO plastic
- Receptacle Shells - Nickel plated brass
- Consult factory for stainless steel receptacle shells.
- Contacts - Gold over nickel plated copper alloy
- Cable - 8 - #22 & 3 - #18 with PVC insulation and PUR jacket.
- Connector inserts - Nylon
- Port environmental covers - Nylon
- Port designation tabs - Styrene

Consult factory for wiring diagrams.

Consult factory for 4 or 6 port options.

Consult factory for 4, 6, or 8 Port AC version Junction Boxes.

# NEW PRODUCTS



## MICRO-MIZER® / NANO-MIZER® "T" & "Y" SPLITTERS

- Polyurethane Overmold
- Nickel plated brass coupling rings
- 4,5, or 8 positions available
- Available in series or parallel wiring
- With or without mounting tabs
- Various "T" configurations available
  - Micro-Mizer® male -to- Micro-Mizer® female with Micro-Mizer® female drop
  - Micro-Mizer® male -to- Micro-Mizer® female with Nano-Mizer® female drop
- Various "Y" configurations available
  - (1) Nano-Mizer® male -to- (2) Nano-Mizer® females
  - (1) Micro-Mizer® male -to- (2) Nano-Mizer® females
  - (1) Micro-Mizer® male -to- (2) Micro-Mizer® females

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9