# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

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Sensor/actuator terminal block, Connection method: Spring-cage connection, Cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

## Product Features

- Upper level for signal wiring

## Key commercial data

| | |
|---|---|
| Packing unit | 1 PCE |
| Minimum order quantity | 50 PCE |
| Weight per Piece (excluding packing) | 12.0 GRM |
| Custom tariff number | 85369010 |
| Country of origin | Poland |

## Technical data

### General

| | |
|---|---|
| Number of levels | 3 |
| Number of connections | 5 |
| Color | gray |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |
| Rated surge voltage | 4 kV |
| Pollution degree | 3 |
| Surge voltage category | III |
| Insulating material group | I |
| Connection in acc. with standard | IEC 60947-7-1 |
| Nominal current $I_N$ | 18 A |
| Nominal voltage $U_N$ | 250 V |

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## Technical data

### General

| | |
|---|---|
| Open side panel | ja |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Surge voltage test setpoint | 4.8 kV |
| Result of surge voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.5 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 0.08 mm² / 0.1 kg |
| | 2.5 mm² / 0.7 kg |
| | 4 mm² / 0.9 kg |
| Result of bending test | Test passed |
| Conductor cross section tensile test | 0.08 mm² |
| Tractive force setpoint | 5 N |
| Conductor cross section tensile test | 2.5 mm² |
| Tractive force setpoint | 50 N |
| Conductor cross section tensile test | 4 mm² |
| Tractive force setpoint | 60 N |
| Tensile test result | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of tight fit test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of voltage drop test | Test passed |
| Temperature-rise test | Test passed |
| Conductor cross section short circuit testing | 2.5 mm² |
| Short-time current | 0.3 kA |
| Short circuit stability result | Test passed |
| Ageing test for screwless modular terminal block temperature cycles | 192 |
| Result of aging test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Result of thermal test | Test passed |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 120 °C |

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Technical data

### Dimensions

| | |
|---|---|
| Width | 5.2 mm |
| Length | 92.3 mm |
| Height NS 35/7,5 | 44.5 mm |
| Height NS 35/15 | 52 mm |

### Connection data

| | |
|---|---|
| Conductor cross section solid min. | 0.08 mm² |
| Conductor cross section solid max. | 4 mm² |
| Conductor cross section stranded min. | 0.08 mm² |
| Conductor cross section stranded max. | 2.5 mm² |
| Conductor cross section AWG/kcmil min. | 28 |
| Conductor cross section AWG/kcmil max | 12 |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 2.5 mm² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.14 mm² |
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 2.5 mm² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm² |
| Connection method | Spring-cage connection |
| Stripping length | 10 mm |

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27141118 |
| eCl@ss 4.1 | 27141118 |
| eCl@ss 5.0 | 27141118 |
| eCl@ss 5.1 | 27141118 |
| eCl@ss 6.0 | 27141128 |
| eCl@ss 7.0 | 27141128 |
| eCl@ss 8.0 | 27141128 |

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC000900 |
| ETIM 3.0 | EC000900 |
| ETIM 4.0 | EC000900 |
| ETIM 5.0 | EC000900 |

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |

## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

### Approval details

UL Recognized

| | B | C | D |
|---|---|---|---|
| mm²/AWG/kcmil | 28-12 | 28-12 | 28-12 |
| Nominal current IN | 10 A | 18 A | 10 A |
| Nominal voltage UN | 300 V | 150 V | 300 V |

cUL Recognized

| | B | C | D |
|---|---|---|---|
| mm²/AWG/kcmil | 28-12 | 28-12 | 28-12 |
| Nominal current IN | 10 A | 18 A | 10 A |
| Nominal voltage UN | 300 V | 150 V | 300 V |

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Approvals

cULus Recognized

## Accessories

### Accessories

### Bridge

Plug-in bridge - FBS 2-5 - 3030161

Plug-in bridge, Number of positions: 2, Color: red

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Plug-in bridge - FBS 3-5 - 3030174

Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-5 - 3030187

Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-5 - 3030190

Plug-in bridge, Number of positions: 5, Color: red

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

Plug-in bridge - FBS 10-5 - 3030213

Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 20-5 - 3030226

Plug-in bridge, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-5 - 3038930

Plug-in bridge, Number of positions: 50, Color: red

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Plug-in bridge - FBS 2-5 BU - 3036877

Plug-in bridge, Number of positions: 2, Color: blue

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Plug-in bridge - FBS 3-5 BU - 3036880

Plug-in bridge, Number of positions: 3, Color: blue

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

Plug-in bridge - FBS 4-5 BU - 3036893

Plug-in bridge, Number of positions: 4, Color: blue

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Plug-in bridge - FBS 5-5 BU - 3036903

Plug-in bridge, Number of positions: 5, Color: blue

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Plug-in bridge - FBS 10-5 BU - 3036916

Plug-in bridge, Number of positions: 10, Color: blue

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Plug-in bridge - FBS 20-5 BU - 3036929

Plug-in bridge, Number of positions: 20, Color: blue

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Plug-in bridge - FBS 50-5 BU - 3032114

Plug-in bridge, Number of positions: 50, Color: blue

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

Plug-in bridge - FBS 2-5 GY - 3038969

Plug-in bridge, Number of positions: 2, Color: gray

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Plug-in bridge - FBS 3-5 GY - 3038972

Plug-in bridge, Number of positions: 3, Color: gray

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Plug-in bridge - FBS 4-5 GY - 3038985

Plug-in bridge, Number of positions: 4, Color: gray

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Plug-in bridge - FBS 5-5 GY - 3038998

Plug-in bridge, Number of positions: 5, Color: gray

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Plug-in bridge - FBS 10-5 GY - 3039007

Plug-in bridge, Number of positions: 10, Color: gray

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

Plug-in bridge - FBS 20-5 GY - 3038671

Plug-in bridge, Number of positions: 20, Color: gray

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Plug-in bridge - FBS 50-5 GY - 3032127

Plug-in bridge, Number of positions: 50, Color: gray

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## Documentation

Mounting material - ST-IL - 3039900

Operating decal for the ST terminal block

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## End cover

End cover - D-STIO 2,5/4 - 3209125

End cover, Length: 90 mm, Width: 2.2 mm, Color: gray

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## Labeled terminal marker

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

### Zack marker strip - ZB 5 CUS - 0824962

Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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### Marker for terminal blocks - UC-TM 5 CUS - 0824581

Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

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### Marker for terminal blocks - UCT-TM 5 CUS - 0829595

Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, Lettering field: 4.6 x 10.5 mm

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### Zack Marker strip, flat - ZBF 5 CUS - 0825025

Zack Marker strip, flat, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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### Marker for terminal blocks - UC-TMF 5 CUS - 0824638

Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658

Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

## Mounting rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail 35 mm (NS 35)

DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail 35 mm (NS 35)

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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DIN rail - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5

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## Terminal marking

# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

## Accessories

### Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004

Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

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### Marker for terminal blocks - UC-TM 5 - 0818108

Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

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### Marker for terminal blocks - UCT-TM 5 - 0828734

Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, For terminal block width: 5.2 mm, Lettering field: 4.6 x 10.5 mm

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### Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642

Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

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### Marker for terminal blocks - UC-TMF 5 - 0818153

Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

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# Sensor/actuator terminal block - STIO 2,5/4-3B/L - 3209057

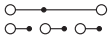
## Accessories

Marker for terminal blocks - UCT-TMF 5 - 0828744

Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

## Drawings

Circuit diagram



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