



■ Timing applications



■ Valves



■ HVAC



# Microswitches

miniature

## V3D

# Microswitches miniature V3D

## Crouzet Presentation

|                                                |      |
|------------------------------------------------|------|
| ■ Adaptation                                   | p. 3 |
| ■ Customisation is our business                | p. 4 |
| ■ V3D Advantages                               | p. 5 |
| ■ Ordering information                         | p. 5 |
| ■ Basic technical principles                   | p. 5 |
| ■ Main specifications                          | p. 6 |
| ■ Additional specifications                    | p. 6 |
| ■ Principle                                    | p. 7 |
| ■ Dimensions                                   | p. 7 |
| ■ Product adaptations                          | p. 7 |
| ■ Connections                                  | p. 8 |
| ■ Actuators                                    | p. 9 |
| ■ Mounting-Operation                           | p. 9 |
| ■ Mechanical characteristics<br>with actuators | p.10 |
| ■ Selection guide                              | p.11 |

**Crouzet** has been a recognised supplier of quality position sensors, micro-switches and limit switches for more than 30 years. Today, **Crouzet** offers you a new range of micro-switches designed to fulfill the toughest of OEMs' requirements.

To suit your design requirements, Crouzet continues to develop its capabilities as a specialist in customisation, offering you solutions specifically adapted to all your applications. Because our top most priority is nothing be left to chance, our quality and environmental management systems are certified to ISO 9001 and ISO 14001.

### About Custom Sensors & Technologies



Headquartered in Moorpark, CA - Custom Sensors & Technologies (CST) is comprised of industry-leading brands including Crouzet, Kavlico, Crydom, and former divisions of BEI Technologies – Newall and Systron Donner. CST provides sensors, controls, and actuation products for the Transportation, Industrial and Aerospace & Defense markets.



# Crouzet

## Adaptation

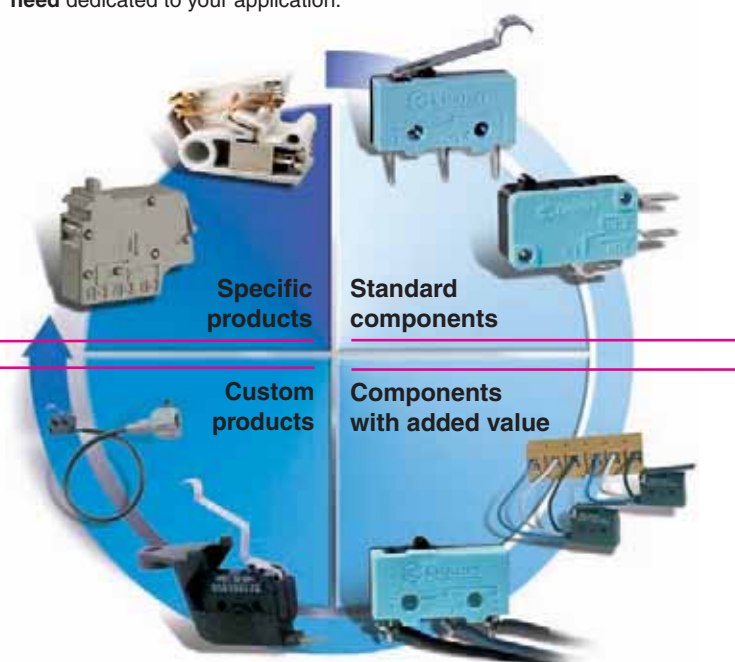
To meet the growing demand for customisation, Crouzet's expertise in terms of adapting products and their corresponding accessories is available to all customers.

Crouzet can customise its products for use in any type of environment or application to ensure perfect integration into any equipment.

Because quality is at the heart of our approach, our quality control and environmental management system are certified to ISO 9001 and ISO 14001 respectively.

■ All our expertise in sensing design and industrialisation placed at your service, to respond to a **specific need** dedicated to your application.

■ A complete range of **standard microswitches** available immediately to create your sensing application.



■ Defined in coordination with our technical sales teams, these **custom products** have the corresponding performance and functionality.

■ Standard products complemented by **factory-mounted auxiliaries or accessories** (levers, cables, connectors, etc) in order to assist integration in your equipment, simplify your logistics and maximise the reliability of your installation.

# Crouzet

## Process



■ Customer needs



■ R&D department



■ Production



■ Quality

# Microswitches miniature V3D

## Crouzet

### Customisation is our business

#### □ Control devices

##### Even more adaptation for easier actuating

Special button shapes which compensate for any faults or positioning drift of the control actuator.



#### □ Connections

##### A complete electrical function

Special connectors, customised wiring, customer bundles, dedicated terminals...



#### □ Seals

##### Even more solutions for demanding environments

Numerous components available to provide effective protection for your contacts, including caps, boot seals, membranes, sealing resin, wiper seals.



#### □ Special levers

##### Obtain the control data

Angled, curved, extended or retractable... these special lever types can be used to extend the control device for easier adjustment, increase the operating force, resist high actuation torque or provide totally safe electrical isolation.



#### □ Special contacts

##### The right contact for every environment

High or low current, AC or DC, type of load (inductive or resistive), industrial or corrosive atmosphere, occasional or intensive use. The best metals, silver, silver nickel, silver palladium, gold-plated silver, solid gold.



#### □ Special fixings

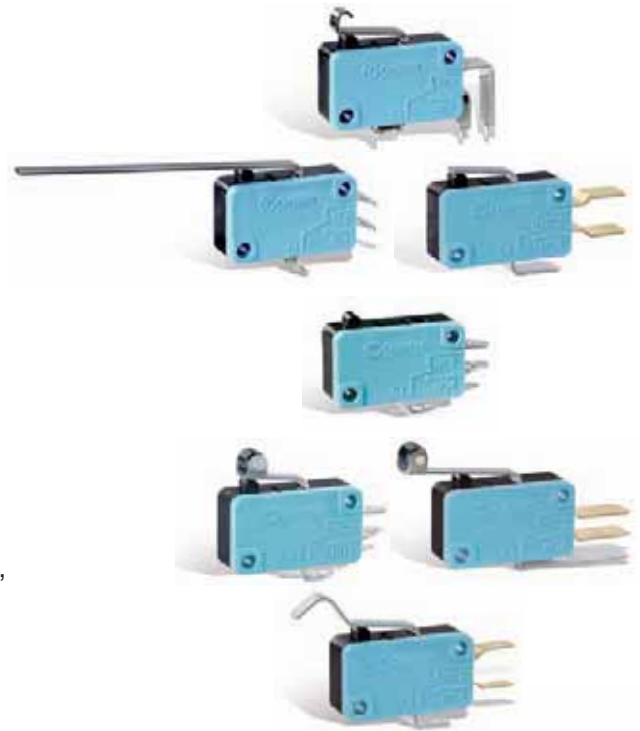
##### No effort is spared to make mounting easier

Snap-on fixing, screw-fixing, crimping or pins are just a few examples of the numerous solutions available to meet all your requirements.



## V3D Advantages

- Wide range of switching ratings from 0.1 A to 21 A
- V3 standard size
- Approved to ENEC (EN 61058-1) and UL/CSA
- Compliant to RoHS
- Glow wire test withstanding to EN 60335-1: GWFI 850°C and GWIT 775°C
- Various applications areas: Industry, Consumer equipment, Home appliances, HVAC, ...
- A high capacity to adapt levers, connections, fixing elements, upon request



## Ordering Information

### Model Number Legend



#### 1 - Ratings / Operating force max

- 1: 16 A / 2 N
- 2: 20 A / 2 N
- 3: 16 A / 1 N
- 4: 12 A / 0.5 N
- 5: 5 A / 0.25 N
- 8: 0.05 A / 1 N
- 9: 0.05 A / 0.25 N

#### 2 - Functions

- 0: Changeover
- 6: Normally closed
- 8: Normally open

#### 3 - Connections

- 0: W1 screws
- 1: W2 solder
- 2: W3 for 6.35 mm clips
- 3: W3R5 for Rast 5 connector
- 4: W6A5 for 4.8 x 0.5 mm clips
- 5: W6D8 for 4.8 x 0.8 mm clips
- 6: W7A5 for 2.8 x 0.5mm clips
- 7: X2 rear side for PCB
- 8: X3 front side for PCB
- 9: X1 straight for PCB

#### 4 - Actuators

- 1: Plunger
- 2: Lever 260A R14.2
- 3: Lever 260A R25.4
- 4: Lever 260A R40
- 5: Lever 260A R60
- 6: Lever 260F R22.2
- 7: Lever 260E R13.7
- 8: Lever 260E R24.3
- 9: Lever 260G R13.8

W3R2.5 for Rast 2.5 connector (SP9307): Contact us

## Basic technical principles

- See our Position Sensors Catalogue

# Microswitches miniature V3D

- Nominal ratings from 0.1 A to 21 A
- Operating temperature up to + 150°C
- Approved to ENEC and UL/CSA
- Large choice of actuators



## Main specifications

|                                         |                                                          | 83261                  | 83262                                                      | 83263                  | 83264                        |
|-----------------------------------------|----------------------------------------------------------|------------------------|------------------------------------------------------------|------------------------|------------------------------|
| Function                                | Connections                                              |                        |                                                            |                        |                              |
| I (changeover)                          | W1 - W2 - W3 - W3R5 - W6A5<br>W6D8 - W7A5 - X1 - X2 - X3 | ●                      | ●                                                          | ●                      | ●                            |
| R (normally closed)                     | W1 - W2 - W3 - W3R5 - W6A5<br>W6D8 - W7A5                | ●                      | ●                                                          | ●                      | ●                            |
| C (normally open)                       | W1 - W2 - W3 - W3R5 - W6A5<br>W6D8 - W7A5                | ●                      | ●                                                          | ●                      | ●                            |
| Electrical characteristics              |                                                          |                        |                                                            |                        |                              |
| Rating nominal / 250 V AC (A)           |                                                          | 16                     | 20                                                         | 16                     | 12                           |
| Rating thermal / 250 V AC (A)           |                                                          | 20                     | 25                                                         | 20                     | 15                           |
| Rating nominal / 5 → 24 V AC/DC (A)     |                                                          | -                      | -                                                          | -                      | -                            |
| Mechanical characteristics              |                                                          |                        |                                                            |                        |                              |
| Maximum operating force (N)             |                                                          | 2                      | 2                                                          | 1                      | 0.5                          |
| Min. Release force (N)                  |                                                          | 0.5                    | 0.5                                                        | 0.2                    | 0.1                          |
| Maximum total travel force (N)          |                                                          | 3                      | 3                                                          | 1.5                    | 0.8                          |
| Max. permitted overtravel force (N)     |                                                          | 20                     | 20                                                         | 20                     | 20                           |
| Maximum rest position (mm)              |                                                          | 16.2                   | 16.2                                                       | 16.2                   | 16.2                         |
| Tripping point (mm)                     |                                                          | 14.7 <sup>±0.5</sup>   | 14.7 <sup>±0.5</sup>                                       | 14.7 <sup>±0.5</sup>   | 14.7 <sup>±0.5</sup>         |
| Maximum differential travel (mm)        |                                                          | 0.40                   | 0.40                                                       | 0.40                   | 0.40                         |
| Min. overtravel (mm)                    |                                                          | 1.1                    | 1.1                                                        | 1.1                    | 1.1                          |
| Ambient operating temperature (°C)      |                                                          | -20 → +125             | -20 → +125                                                 | -20 → +125             | -20 → +125                   |
| Mechanical life for 2/3 OT (operations) |                                                          | 1 000 000              | 1 000 000                                                  | 1 000 000              | 1 000 000                    |
| Contact gap (mm)                        |                                                          | 0.6                    | 0.6                                                        | 0.6                    | 0.6                          |
| Weight (g)                              |                                                          | 6                      | 6                                                          | 6                      | 6                            |
| Approvals                               |                                                          |                        |                                                            |                        |                              |
| EN 61058-1                              | Rating for T125°C<br>** T150°C<br>*** T85°C              | 16 (4) A<br>250 V AC   | 20 (8) A<br>250 V AC                                       | 16 (4) A<br>250 V AC   | ***12 (6) A<br>250 V AC      |
|                                         | Number of cycles                                         | 50 000                 | 10 000                                                     | 50 000                 | 50 000                       |
| UL 1054                                 | Rating                                                   | 16 A<br>125 / 250 V AC | 21 A<br>125 / 250 V AC<br>1/2 HP 125 V AC<br>1 HP 250 V AC | 16 A<br>125 / 250 V AC | 8 A 1/4 HP<br>125 / 250 V AC |
|                                         | Number of cycles                                         | 6 000                  | 6 000                                                      | 6 000                  | 6 000                        |

## Additional specifications

### Component Materials

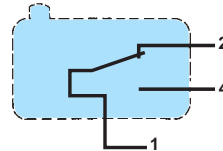
- Housing/cover/button: polyester UL 94V0 - GWIT 775°C / GWFI 850°C
- Blade/spring: copper alloy
- Contacts: silver alloy or gold plated
- Terminals: brass or silver plated brass
- Actuators: stainless steel, glass filled polyamide roller



| 83265                          | 83268                               | 83269                               |
|--------------------------------|-------------------------------------|-------------------------------------|
|                                |                                     |                                     |
|                                |                                     |                                     |
|                                |                                     |                                     |
| 5                              | -                                   | -                                   |
| 7.5                            | -                                   | -                                   |
| -                              | 0.001 → 0.05                        | 0.001 → 0.05                        |
| 0.25                           | 1                                   | 0.25                                |
| 0.05                           | 0.2                                 | 0.05                                |
| 0.4                            | 1.5                                 | 0.4                                 |
| 20                             | 20                                  | 20                                  |
| 16.2                           | 16.2                                | 16.2                                |
| 14.7 $\pm 0.5$                 | 14.7 $\pm 0.5$                      | 14.7 $\pm 0.5$                      |
| 0.40                           | 0.40                                | 0.40                                |
| 1.1                            | 1.1                                 | 1.1                                 |
| -20 → +125                     | -20 → +150                          | -20 → +150                          |
| 1 000 000                      | 1 000 000                           | 1 000 000                           |
| 0.6                            | 0.6                                 | 0.6                                 |
| 6                              | 6                                   | 6                                   |
| <b>** 5 (1) A<br/>250 V AC</b> | <b>** 0.1 (0.04) A<br/>250 V AC</b> | <b>** 0.1 (0.04) A<br/>250 V AC</b> |
| 50 000                         | 50 000                              | 50 000                              |
| 5 A 1/10 HP<br>125 / 250 V AC  | 0.1 A 125 V AC<br>0.1 A 30 V DC     | 0.1 A 125 V AC<br>0.1 A 30 V DC     |
| 6 000                          | 6 000                               | 6 000                               |

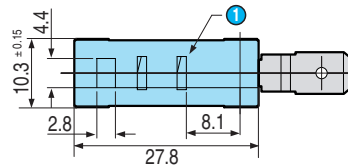
## Principle

Single break changeover switch

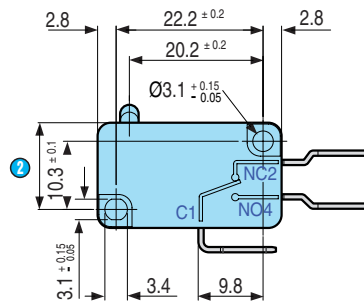


## Dimensions (mm)

V3D



① lever fixing position B



② Total Travel Position 13.2 max

## Product adaptations



- Rast 2.5 connection (SP9307): [see Connections](#)
- Other specific connections
- Specific levers
- Specific contacts
- Specific fixing
- High operating temperature

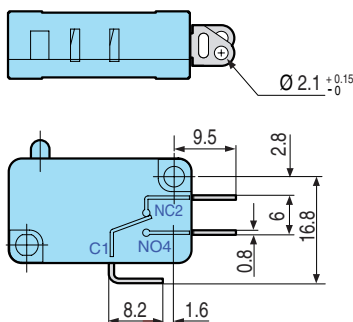
# Microswitches miniature V3D

## Connections

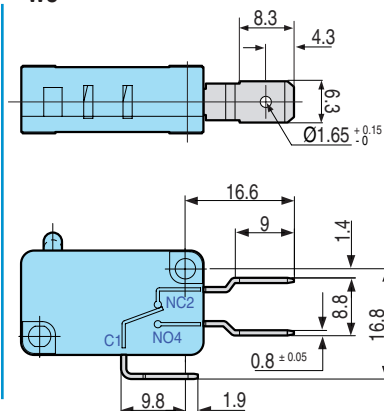
W1



W2



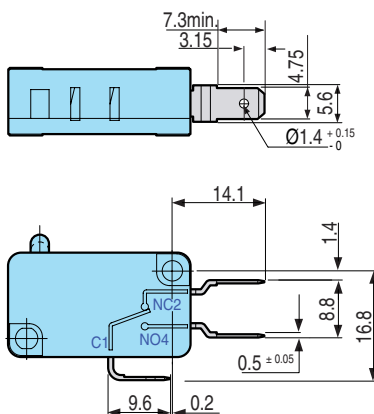
W3



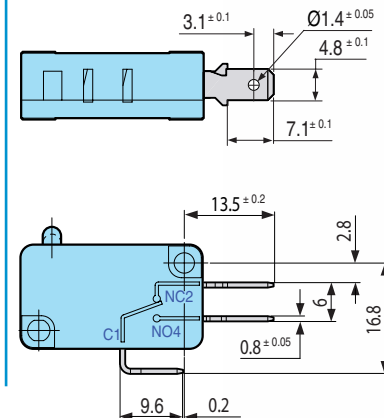
W3R5



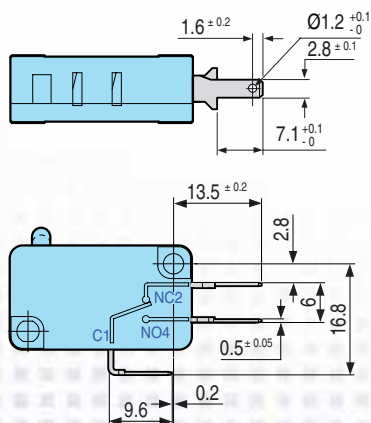
W6A5



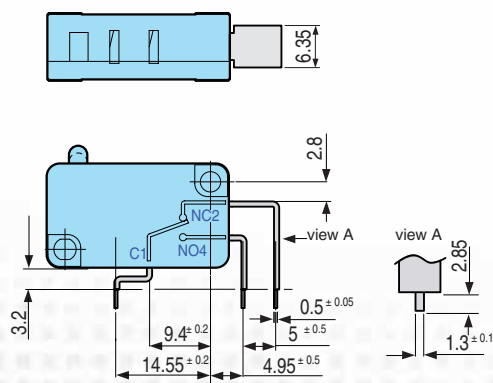
W6D8



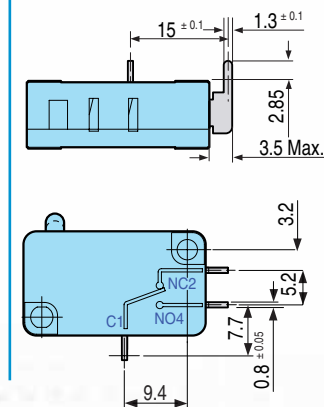
W7A5



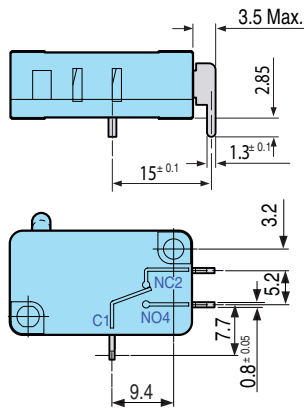
X1



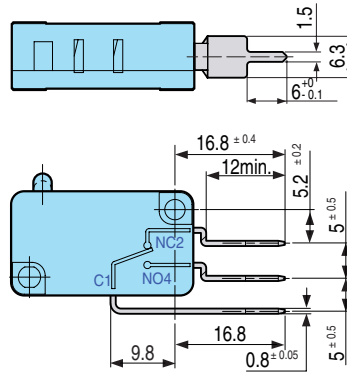
X2



X3



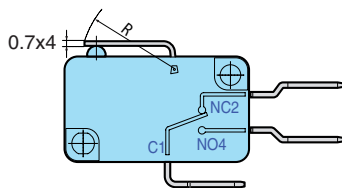
W3R2.5 (SP9307)



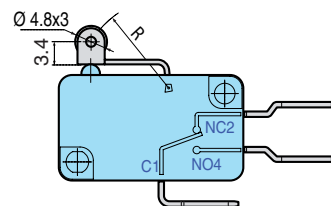
Contact us

## Actuators

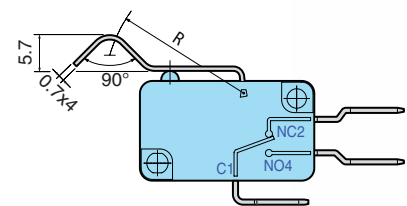
260 A



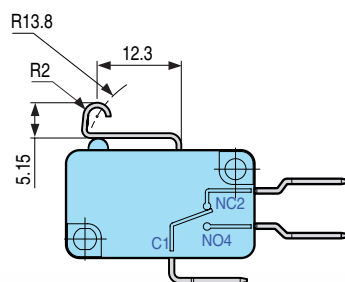
260 E



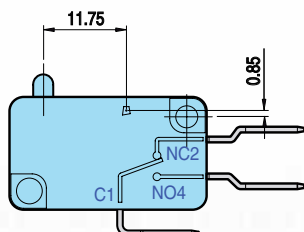
260 F



260 G

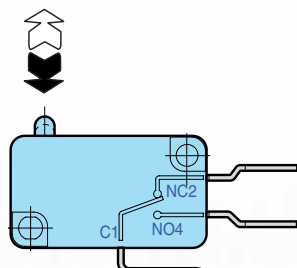


## Actuator mounting position



## Mounting - Operation

To conform to the leakage paths and air gaps required in the standard  
EN/IEC 61058-1 - EN/IEC 60947-5-1:



- An insulation pad must be inserted between the microswitch and the fixing surface if the fixing surface is metal.
- Manual operation of a metal actuator must only be carried out with the help of a secondary actuator made of insulating material. The installer must ensure adequate protection against direct contact with the output terminals.

# Microswitches miniature V3D

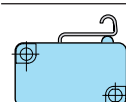
## Mechanical characteristics with actuators

|                                                                                                                  |       | Length of actuator (mm) | Maximum operating force (N) | Minimum release force (N) | Tripping point (mm) | Minimum overtravel (mm) | Maximum differential travel (mm) | Maximum total travel (mm) |
|------------------------------------------------------------------------------------------------------------------|-------|-------------------------|-----------------------------|---------------------------|---------------------|-------------------------|----------------------------------|---------------------------|
| <br>Lever 260A<br>R14.2 Pos B   | 83261 | 14.2                    | 2                           | 0.5                       | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83262 | 14.2                    | 2                           | 0.5                       | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83263 | 14.2                    | 1                           | 0.2                       | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83264 | 14.2                    | 0.5                         | 0.1                       | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83265 | 14.2                    | 0.25                        | 0.05                      | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83268 | 14.2                    | 1                           | 0.2                       | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83269 | 14.2                    | 0.25                        | 0.05                      | 15.4 $\pm$ 0.5      | 1.1                     | 0.4                              | 3                         |
| <br>Lever 260A<br>R25.4 Pos B   | 83261 | 25.4                    | 1                           | 0.25                      | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83262 | 25.4                    | 1                           | 0.25                      | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83263 | 25.4                    | 0.5                         | 0.1                       | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83264 | 25.4                    | 0.25                        | 0.05                      | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83265 | 25.4                    | 0.13                        | 0.02                      | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83268 | 25.4                    | 0.5                         | 0.1                       | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
|                                                                                                                  | 83269 | 25.4                    | 0.13                        | 0.02                      | 15.4 $\pm$ 1        | 2                       | 0.8                              | 5.8                       |
| <br>Lever 260A<br>R40 Pos B    | 83261 | 40                      | 0.6                         | 0.15                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83262 | 40                      | 0.6                         | 0.15                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83263 | 40                      | 0.3                         | 0.06                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83264 | 40                      | 0.15                        | 0.03                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83265 | 40                      | 0.08                        | 0.01                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83268 | 40                      | 0.3                         | 0.06                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
|                                                                                                                  | 83269 | 40                      | 0.08                        | 0.01                      | 15.4 $\pm$ 1.8      | 3.3                     | 1.3                              | 9.6                       |
| <br>Lever 260A<br>R60 Pos B   | 83261 | 60                      | 0.4                         | 0.1                       | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83262 | 60                      | 0.4                         | 0.1                       | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83263 | 60                      | 0.2                         | 0.04                      | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83264 | 60                      | 0.1                         | 0.02                      | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83265 | 60                      | 0.05                        | 0.01                      | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83268 | 60                      | 0.2                         | 0.04                      | 15.4 $\pm$ 2.5      | 5                       | 2                                | 14.5                      |
|                                                                                                                  | 83269 | 60                      | 0.05                        | 0.01                      | 15.4 $\pm$ 1        | 5                       | 2                                | 14.5                      |
| <br>Lever 260F<br>R22.2 Pos B | 83261 | 22.2                    | 1.06                        | 0.26                      | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83262 | 22.2                    | 1.06                        | 0.26                      | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83263 | 22.2                    | 0.53                        | 0.1                       | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83264 | 22.2                    | 0.27                        | 0.05                      | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83265 | 22.2                    | 0.13                        | 0.02                      | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83268 | 22.2                    | 0.53                        | 0.1                       | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
|                                                                                                                  | 83269 | 22.2                    | 0.13                        | 0.02                      | 20.4 $\pm$ 1        | 1.8                     | 0.75                             | 5.2                       |
| <br>Lever 260E<br>R13.7 Pos B | 83261 | 13.7                    | 2                           | 0.5                       | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83262 | 13.7                    | 2                           | 0.5                       | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83263 | 13.7                    | 1                           | 0.2                       | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83264 | 13.7                    | 0.5                         | 0.1                       | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83265 | 13.7                    | 0.25                        | 0.05                      | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83268 | 13.7                    | 1                           | 0.2                       | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |
|                                                                                                                  | 83269 | 13.7                    | 0.25                        | 0.05                      | 20.5 $\pm$ 0.8      | 1.1                     | 0.4                              | 3                         |



Lever 260E  
R24.3 Pos B

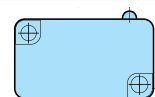
|       |  | Length of actuator (mm) | Maximum operating force (N) | Minimum release force (N) | Tripping point (mm)  | Minimum overtravel (mm) | Maximum differential travel (mm) | Maximum total travel (mm) |
|-------|--|-------------------------|-----------------------------|---------------------------|----------------------|-------------------------|----------------------------------|---------------------------|
| 83261 |  | 24.3                    | 1                           | 0.25                      | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83262 |  | 24.3                    | 1                           | 0.25                      | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83263 |  | 24.3                    | 0.5                         | 0.1                       | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83264 |  | 24.3                    | 0.25                        | 0.05                      | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83265 |  | 24.3                    | 0.13                        | 0.02                      | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83268 |  | 24.3                    | 0.5                         | 0.1                       | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |
| 83269 |  | 24.3                    | 0.13                        | 0.02                      | 20.5 <sup>+1.5</sup> | 2                       | 0.8                              | 5.8                       |



Lever 260G  
R13.8 Pos B

|       |  |      |      |      |                      |     |     |   |
|-------|--|------|------|------|----------------------|-----|-----|---|
| 83261 |  | 13.8 | 2    | 0.5  | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83262 |  | 13.8 | 2    | 0.5  | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83263 |  | 13.8 | 1    | 0.2  | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83264 |  | 13.8 | 0.5  | 0.1  | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83265 |  | 13.8 | 0.25 | 0.05 | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83268 |  | 13.8 | 1    | 0.2  | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |
| 83269 |  | 13.8 | 0.25 | 0.05 | 19.9 <sup>+0.7</sup> | 1.1 | 0.4 | 3 |

## Selection guide



Plunger

| Rating / Force |          |            | 16 A / 2 N | 20 A / 2 N | 16 A / 1 N | 12 A / 0.5 N | 5 A / 0.25 N | 0.05 A / 1 N | 0.05 A / 0.25 N |
|----------------|----------|------------|------------|------------|------------|--------------|--------------|--------------|-----------------|
| Type           |          |            | 83261      | 83262      | 83263      | 83264        | 83265        | 83268        | 83269           |
| Actuators      | Function | Connection |            |            |            |              |              |              |                 |
| I              | W1       |            | 83261001   | 83262001   | 83263001   | 83264001     | 83265001     | 83268001     | 83269001        |
| I              | W2       |            | 83261011   | 83262011   | 83263011   | 83264011     | 83265011     | 83268011     | 83269011        |
| I              | W3       |            | 83261021   | 83262021   | 83263021   | 83264021     | 83265021     | 83268021     | 83269021        |
| I              | W3R5     |            | 83261031   | 83262031   | 83263031   | 83264031     | 83265031     | 83268031     | 83269031        |
| I              | W6A5     |            | 83261041   | 83262041   | 83263041   | 83264041     | 83265041     | 83268041     | 83269041        |
| I              | W6D8     |            | 83261051   | 83262051   | 83263051   | 83264051     | 83265051     | 83268051     | 83269051        |
| I              | W7A5     |            | 83261061   | -          | 83263061   | 83264061     | 83265061     | 83268061     | 83269061        |
| I              | X2       |            | 83261071   | -          | 83263071   | 83264071     | 83265071     | 83268071     | 83269071        |
| I              | X3       |            | 83261081   | -          | 83263081   | 83264081     | 83265081     | 83268081     | 83269081        |
| I              | X1       |            | 83261091   | -          | 83263091   | 83264091     | 83265091     | 83268091     | 83269091        |
| R              | W1       |            | 83261601   | 83262601   | 83263601   | 83264601     | 83265601     | 83268601     | 83269601        |
| R              | W2       |            | 83261611   | 83262611   | 83263611   | 83264611     | 83265611     | 83268611     | 83269611        |
| R              | W3       |            | 83261621   | 83262621   | 83263621   | 83264621     | 83265621     | 83268621     | 83269621        |
| R              | W3R5     |            | 83261631   | 83262631   | 83263631   | 83264631     | 83265631     | 83268631     | 83269631        |
| R              | W6A5     |            | 83261641   | 83262641   | 83263641   | 83264641     | 83265641     | 83268641     | 83269641        |
| R              | W6D8     |            | 83261651   | 83262651   | 83263651   | 83264651     | 83265651     | 83268651     | 83269651        |
| R              | W7A5     |            | 83261661   | -          | 83263661   | 83264661     | 83265661     | 83268661     | 83269661        |
| C              | W1       |            | 83261801   | 83262801   | 83263801   | 83264801     | 83265801     | 83268801     | 83269801        |
| C              | W2       |            | 83261811   | 83262811   | 83263811   | 83264811     | 83265811     | 83268811     | 83269811        |
| C              | W3       |            | 83261821   | 83262821   | 83263821   | 83264821     | 83265821     | 83268821     | 83269821        |
| C              | W3R5     |            | 83261831   | 83262831   | 83263831   | 83264831     | 83265831     | 83268831     | 83269831        |
| C              | W6A5     |            | 83261841   | 83262841   | 83263841   | 83264841     | 83265841     | 83268841     | 83269841        |
| C              | W6D8     |            | 83261851   | 83262851   | 83263851   | 83264851     | 83265851     | 83268851     | 83269851        |
| C              | W7A5     |            | 83261861   | -          | 83263861   | 83264861     | 83265861     | 83268861     | 83269861        |

# Microswitches miniature V3D

| Actuators                                                                                                        | Rating / Force |            | 16 A / 2 N | 20 A / 2 N | 16 A / 1 N | 12 A / 0.5 N | 5 A / 0.25 N | 0.05 A / 1 N | 0.05 A / 0.25 N |
|------------------------------------------------------------------------------------------------------------------|----------------|------------|------------|------------|------------|--------------|--------------|--------------|-----------------|
|                                                                                                                  | Type           |            | 83261      | 83262      | 83263      | 83264        | 83265        | 83268        | 83269           |
|                                                                                                                  | Function       | Connection |            |            |            |              |              |              |                 |
| <br>Lever 260A<br>R14.2 Pos B   | I              | W1         | 83261002   | 83262002   | 83263002   | 83264002     | 83265002     | 83268002     | 83269002        |
|                                                                                                                  | I              | W2         | 83261012   | 83262012   | 83263012   | 83264012     | 83265012     | 83268012     | 83269012        |
|                                                                                                                  | I              | W3         | 83261022   | 83262022   | 83263022   | 83264022     | 83265022     | 83268022     | 83269022        |
|                                                                                                                  | I              | W3R5       | 83261032   | 83262032   | 83263032   | 83264032     | 83265032     | 83268032     | 83269032        |
|                                                                                                                  | I              | W6A5       | 83261042   | 83262042   | 83263042   | 83264042     | 83265042     | 83268042     | 83269042        |
|                                                                                                                  | I              | W6D8       | 83261052   | 83262052   | 83263052   | 83264052     | 83265052     | 83268052     | 83269052        |
|                                                                                                                  | I              | W7A5       | 83261062   | -          | 83263062   | 83264062     | 83265062     | 83268062     | 83269062        |
|                                                                                                                  | I              | X2         | 83261072   | -          | 83263072   | 83264072     | 83265072     | 83268072     | 83269072        |
|                                                                                                                  | I              | X3         | 83261082   | -          | 83263082   | 83264082     | 83265082     | 83268082     | 83269082        |
|                                                                                                                  | I              | X1         | 83261092   | -          | 83263092   | 83264092     | 83265092     | 83268092     | 83269092        |
|                                                                                                                  | R              | W1         | 83261602   | 83262602   | 83263602   | 83264602     | 83265602     | 83268602     | 83269602        |
|                                                                                                                  | R              | W2         | 83261612   | 83262612   | 83263612   | 83264612     | 83265612     | 83268612     | 83269612        |
|                                                                                                                  | R              | W3         | 83261622   | 83262622   | 83263622   | 83264622     | 83265622     | 83268622     | 83269622        |
|                                                                                                                  | R              | W3R5       | 83261632   | 83262632   | 83263632   | 83264632     | 83265632     | 83268632     | 83269632        |
|                                                                                                                  | R              | W6A5       | 83261642   | 83262642   | 83263642   | 83264642     | 83265642     | 83268642     | 83269642        |
|                                                                                                                  | R              | W6D8       | 83261652   | 83262652   | 83263652   | 83264652     | 83265652     | 83268652     | 83269652        |
|                                                                                                                  | R              | W7A5       | 83261662   | -          | 83263662   | 83264662     | 83265662     | 83268662     | 83269662        |
|                                                                                                                  | C              | W1         | 83261802   | 83262802   | 83263802   | 83264802     | 83265802     | 83268802     | 83269802        |
|                                                                                                                  | C              | W2         | 83261812   | 83262812   | 83263812   | 83264812     | 83265812     | 83268812     | 83269812        |
|                                                                                                                  | C              | W3         | 83261822   | 83262822   | 83263822   | 83264822     | 83265822     | 83268822     | 83269822        |
|                                                                                                                  | C              | W3R5       | 83261832   | 83262832   | 83263832   | 83264832     | 83265832     | 83268832     | 83269832        |
|                                                                                                                  | C              | W6A5       | 83261842   | 83262842   | 83263842   | 83264842     | 83265842     | 83268842     | 83269842        |
|                                                                                                                  | C              | W6D8       | 83261852   | 83262852   | 83263852   | 83264852     | 83265852     | 83268852     | 83269852        |
|                                                                                                                  | C              | W7A5       | 83261862   | -          | 83263862   | 83264862     | 83265862     | 83268862     | 83269862        |
| <br>Lever 260A<br>R25.4 Pos B | I              | W1         | 83261003   | 83262003   | 83263003   | 83264003     | 83265003     | 83268003     | 83269003        |
|                                                                                                                  | I              | W2         | 83261013   | 83262013   | 83263013   | 83264013     | 83265013     | 83268013     | 83269013        |
|                                                                                                                  | I              | W3         | 83261023   | 83262023   | 83263023   | 83264023     | 83265023     | 83268023     | 83269023        |
|                                                                                                                  | I              | W3R5       | 83261033   | 83262033   | 83263033   | 83264033     | 83265033     | 83268033     | 83269033        |
|                                                                                                                  | I              | W6A5       | 83261043   | 83262043   | 83263043   | 83264043     | 83265043     | 83268043     | 83269043        |
|                                                                                                                  | I              | W6D8       | 83261053   | 83262053   | 83263053   | 83264053     | 83265053     | 83268053     | 83269053        |
|                                                                                                                  | I              | W7A5       | 83261063   | -          | 83263063   | 83264063     | 83265063     | 83268063     | 83269063        |
|                                                                                                                  | I              | X2         | 83261073   | -          | 83263073   | 83264073     | 83265073     | 83268073     | 83269073        |
|                                                                                                                  | I              | X3         | 83261083   | -          | 83263083   | 83264083     | 83265083     | 83268083     | 83269083        |
|                                                                                                                  | I              | X1         | 83261093   | -          | 83263093   | 83264093     | 83265093     | 83268093     | 83269093        |
|                                                                                                                  | R              | W1         | 83261603   | 83262603   | 83263603   | 83264603     | 83265603     | 83268603     | 83269603        |
|                                                                                                                  | R              | W2         | 83261613   | 83262613   | 83263613   | 83264613     | 83265613     | 83268613     | 83269613        |
|                                                                                                                  | R              | W3         | 83261623   | 83262623   | 83263623   | 83264623     | 83265623     | 83268623     | 83269623        |
|                                                                                                                  | R              | W3R5       | 83261633   | 83262633   | 83263633   | 83264633     | 83265633     | 83268633     | 83269633        |
|                                                                                                                  | R              | W6A5       | 83261643   | 83262643   | 83263643   | 83264643     | 83265643     | 83268643     | 83269643        |
|                                                                                                                  | R              | W6D8       | 83261653   | 83262653   | 83263653   | 83264653     | 83265653     | 83268653     | 83269653        |
|                                                                                                                  | R              | W7A5       | 83261663   | -          | 83263663   | 83264663     | 83265663     | 83268663     | 83269663        |
|                                                                                                                  | C              | W1         | 83261803   | 83262803   | 83263803   | 83264803     | 83265803     | 83268803     | 83269803        |
|                                                                                                                  | C              | W2         | 83261813   | 83262813   | 83263813   | 83264813     | 83265813     | 83268813     | 83269813        |
|                                                                                                                  | C              | W3         | 83261823   | 83262823   | 83263823   | 83264823     | 83265823     | 83268823     | 83269823        |
|                                                                                                                  | C              | W3R5       | 83261833   | 83262833   | 83263833   | 83264833     | 83265833     | 83268833     | 83269833        |
|                                                                                                                  | C              | W6A5       | 83261843   | 83262843   | 83263843   | 83264843     | 83265843     | 83268843     | 83269843        |
|                                                                                                                  | C              | W6D8       | 83261853   | 83262853   | 83263853   | 83264853     | 83265853     | 83268853     | 83269853        |
|                                                                                                                  | C              | W7A5       | 83261863   | -          | 83263863   | 83264863     | 83265863     | 83268863     | 83269863        |

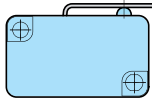
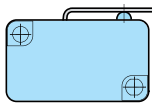
## Note:

Function: **I** = Changeover - **R** = Normally closed - **C** = Normally open

Connection: **W1** = screws - **W2** = solder - **W3** = for 6.35 mm clips - **W3R5** = for Rast 5 connector

**W6A5** = for 4.8 x 0.5 mm clips - **W6D8** = for 4.8 x 0.8 mm clips - **W7A5** = for 2.8 x 0.5 mm clips

**X2** = rear side for PCB - **X3** = front side for PCB - **X1** = straight for PCB

| Rating / Force                                                                                                 |          |            | 16 A / 2 N | 20 A / 2 N | 16 A / 1 N | 12 A / 0.5N | 5 A / 0.25 N | 0.05 A / 1 N | 0.05 A / 0.25 N |
|----------------------------------------------------------------------------------------------------------------|----------|------------|------------|------------|------------|-------------|--------------|--------------|-----------------|
| Type                                                                                                           |          |            | 83261      | 83262      | 83263      | 83264       | 83265        | 83268        | 83269           |
| Actuators                                                                                                      | Function | Connection |            |            |            |             |              |              |                 |
| <br>Lever 260A<br>R40 Pos B   | I        | W1         | 83261004   | 83262004   | 83263004   | 83264004    | 83265004     | 83268004     | 83269004        |
|                                                                                                                | I        | W2         | 83261014   | 83262014   | 83263014   | 83264014    | 83265014     | 83268014     | 83269014        |
|                                                                                                                | I        | W3         | 83261024   | 83262024   | 83263024   | 83264024    | 83265024     | 83268024     | 83269024        |
|                                                                                                                | I        | W3R5       | 83261034   | 83262034   | 83263034   | 83264034    | 83265034     | 83268034     | 83269034        |
|                                                                                                                | I        | W6A5       | 83261044   | 83262044   | 83263044   | 83264044    | 83265044     | 83268044     | 83269044        |
|                                                                                                                | I        | W6D8       | 83261054   | 83262054   | 83263054   | 83264054    | 83265054     | 83268054     | 83269054        |
|                                                                                                                | I        | W7A5       | 83261064   | -          | 83263064   | 83264064    | 83265064     | 83268064     | 83269064        |
|                                                                                                                | I        | X2         | 83261074   | -          | 83263074   | 83264074    | 83265074     | 83268074     | 83269074        |
|                                                                                                                | I        | X3         | 83261084   | -          | 83263084   | 83264084    | 83265084     | 83268084     | 83269084        |
|                                                                                                                | I        | X1         | 83261094   | -          | 83263094   | 83264094    | 83265094     | 83268094     | 83269094        |
|                                                                                                                | R        | W1         | 83261604   | 83262604   | 83263604   | 83264604    | 83265604     | 83268604     | 83269604        |
|                                                                                                                | R        | W2         | 83261614   | 83262614   | 83263614   | 83264614    | 83265614     | 83268614     | 83269614        |
|                                                                                                                | R        | W3         | 83261624   | 83262624   | 83263624   | 83264624    | 83265624     | 83268624     | 83269624        |
|                                                                                                                | R        | W3R5       | 83261634   | 83262634   | 83263634   | 83264634    | 83265634     | 83268634     | 83269634        |
|                                                                                                                | R        | W6A5       | 83261644   | 83262644   | 83263644   | 83264644    | 83265644     | 83268644     | 83269644        |
|                                                                                                                | R        | W6D8       | 83261654   | 83262654   | 83263654   | 83264654    | 83265654     | 83268654     | 83269654        |
|                                                                                                                | R        | W7A5       | 83261664   | -          | 83263664   | 83264664    | 83265664     | 83268664     | 83269664        |
|                                                                                                                | C        | W1         | 83261804   | 83262804   | 83263804   | 83264804    | 83265804     | 83268804     | 83269804        |
|                                                                                                                | C        | W2         | 83261814   | 83262814   | 83263814   | 83264814    | 83265814     | 83268814     | 83269814        |
|                                                                                                                | C        | W3         | 83261824   | 83262824   | 83263824   | 83264824    | 83265824     | 83268824     | 83269824        |
| <br>Lever 260A<br>R60 Pos B | C        | W3R5       | 83261834   | 83262834   | 83263834   | 83264834    | 83265834     | 83268834     | 83269834        |
|                                                                                                                | C        | W6A5       | 83261844   | 83262844   | 83263844   | 83264844    | 83265844     | 83268844     | 83269844        |
|                                                                                                                | C        | W6D8       | 83261854   | 83262854   | 83263854   | 83264854    | 83265854     | 83268854     | 83269854        |
|                                                                                                                | C        | W7A5       | 83261864   | -          | 83263864   | 83264864    | 83265864     | 83268864     | 83269864        |
|                                                                                                                | I        | W1         | 83261005   | 83262005   | 83263005   | 83264005    | 83265005     | 83268005     | 83269005        |
|                                                                                                                | I        | W2         | 83261015   | 83262015   | 83263015   | 83264015    | 83265015     | 83268015     | 83269015        |
|                                                                                                                | I        | W3         | 83261025   | 83262025   | 83263025   | 83264025    | 83265025     | 83268025     | 83269025        |
|                                                                                                                | I        | W3R5       | 83261035   | 83262035   | 83263035   | 83264035    | 83265035     | 83268035     | 83269035        |
|                                                                                                                | I        | W6A5       | 83261045   | 83262045   | 83263045   | 83264045    | 83265045     | 83268045     | 83269045        |
|                                                                                                                | I        | W6D8       | 83261055   | 83262055   | 83263055   | 83264055    | 83265055     | 83268055     | 83269055        |
|                                                                                                                | I        | W7A5       | 83261065   | -          | 83263065   | 83264065    | 83265065     | 83268065     | 83269065        |
|                                                                                                                | I        | X2         | 83261075   | -          | 83263075   | 83264075    | 83265075     | 83268075     | 83269075        |
|                                                                                                                | I        | X3         | 83261085   | -          | 83263085   | 83264085    | 83265085     | 83268085     | 83269085        |
|                                                                                                                | I        | X1         | 83261095   | -          | 83263095   | 83264095    | 83265095     | 83268095     | 83269095        |
|                                                                                                                | R        | W1         | 83261605   | 83262605   | 83263605   | 83264605    | 83265605     | 83268605     | 83269605        |
|                                                                                                                | R        | W2         | 83261615   | 83262615   | 83263615   | 83264615    | 83265615     | 83268615     | 83269615        |
|                                                                                                                | R        | W3         | 83261625   | 83262625   | 83263625   | 83264625    | 83265625     | 83268625     | 83269625        |
|                                                                                                                | R        | W3R5       | 83261635   | 83262635   | 83263635   | 83264635    | 83265635     | 83268635     | 83269635        |
|                                                                                                                | R        | W6A5       | 83261645   | 83262645   | 83263645   | 83264645    | 83265645     | 83268645     | 83269645        |
|                                                                                                                | R        | W6D8       | 83261655   | 83262655   | 83263655   | 83264655    | 83265655     | 83268655     | 83269655        |
|                                                                                                                | R        | W7A5       | 83261665   | -          | 83263665   | 83264665    | 83265665     | 83268665     | 83269665        |
|                                                                                                                | C        | W1         | 83261805   | 83262805   | 83263805   | 83264805    | 83265805     | 83268805     | 83269805        |
|                                                                                                                | C        | W2         | 83261815   | 83262815   | 83263815   | 83264815    | 83265815     | 83268815     | 83269815        |
|                                                                                                                | C        | W3         | 83261825   | 83262825   | 83263825   | 83264825    | 83265825     | 83268825     | 83269825        |
|                                                                                                                | C        | W3R5       | 83261835   | 83262835   | 83263835   | 83264835    | 83265835     | 83268835     | 83269835        |
|                                                                                                                | C        | W6A5       | 83261845   | 83262845   | 83263845   | 83264845    | 83265845     | 83268845     | 83269845        |
|                                                                                                                | C        | W6D8       | 83261855   | 83262855   | 83263855   | 83264855    | 83265855     | 83268855     | 83269855        |
|                                                                                                                | C        | W7A5       | 83261865   | -          | 83263865   | 83264865    | 83265865     | 83268865     | 83269865        |

**Note:**

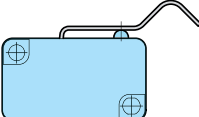
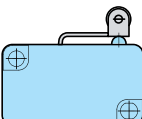
Function: **I** = Changeover - **R** = Normally closed - **C** = Normally open

Connection: **W1** = screws - **W2** = solder - **W3** = for 6.35 mm clips - **W3R5** = for Rast 5 connector

**W6A5** = for 4.8 x 0.5 mm clips - **W6D8** = for 4.8 x 0.8 mm clips - **W7A5** = for 2.8 x 0.5 mm clips

**X2** = rear side for PCB - **X3** = front side for PCB - **X1** = straight for PCB

# Microswitches miniature V3D

|                                                                                                                  | Rating / Force |            | 16 A / 2 N | 20 A / 2 N | 16 A / 1 N | 12 A / 0.5 N | 5 A / 0.25 N | 0.05 A / 1 N | 0.05 A / 0.25 N |
|------------------------------------------------------------------------------------------------------------------|----------------|------------|------------|------------|------------|--------------|--------------|--------------|-----------------|
|                                                                                                                  | Type           |            | 83261      | 83262      | 83263      | 83264        | 83265        | 83268        | 83269           |
| Actuators                                                                                                        | Function       | Connection |            |            |            |              |              |              |                 |
| <br>Lever 260F<br>R22.2 Pos B   | I              | W1         | 83261006   | 83262006   | 83263006   | 83264006     | 83265006     | 83268006     | 83269006        |
|                                                                                                                  | I              | W2         | 83261016   | 83262016   | 83263016   | 83264016     | 83265016     | 83268016     | 83269016        |
|                                                                                                                  | I              | W3         | 83261026   | 83262026   | 83263026   | 83264026     | 83265026     | 83268026     | 83269026        |
|                                                                                                                  | I              | W3R5       | 83261036   | 83262036   | 83263036   | 83264036     | 83265036     | 83268036     | 83269036        |
|                                                                                                                  | I              | W6A5       | 83261046   | 83262046   | 83263046   | 83264046     | 83265046     | 83268046     | 83269046        |
|                                                                                                                  | I              | W6D8       | 83261056   | 83262056   | 83263056   | 83264056     | 83265056     | 83268056     | 83269056        |
|                                                                                                                  | I              | W7A5       | 83261066   | -          | 83263066   | 83264066     | 83265066     | 83268066     | 83269066        |
|                                                                                                                  | I              | X2         | 83261076   | -          | 83263076   | 83264076     | 83265076     | 83268076     | 83269076        |
|                                                                                                                  | I              | X3         | 83261086   | -          | 83263086   | 83264086     | 83265086     | 83268086     | 83269086        |
|                                                                                                                  | I              | X1         | 83261096   | -          | 83263096   | 83264096     | 83265096     | 83268096     | 83269096        |
|                                                                                                                  | R              | W1         | 83261606   | 83262606   | 83263606   | 83264606     | 83265606     | 83268606     | 83269606        |
|                                                                                                                  | R              | W2         | 83261616   | 83262616   | 83263616   | 83264616     | 83265616     | 83268616     | 83269616        |
|                                                                                                                  | R              | W3         | 83261626   | 83262626   | 83263626   | 83264626     | 83265626     | 83268626     | 83269626        |
|                                                                                                                  | R              | W3R5       | 83261636   | 83262636   | 83263636   | 83264636     | 83265636     | 83268636     | 83269636        |
|                                                                                                                  | R              | W6A5       | 83261646   | 83262646   | 83263646   | 83264646     | 83265646     | 83268646     | 83269646        |
|                                                                                                                  | R              | W6D8       | 83261656   | 83262656   | 83263656   | 83264656     | 83265656     | 83268656     | 83269656        |
|                                                                                                                  | R              | W7A5       | 83261666   | -          | 83263666   | 83264666     | 83265666     | 83268666     | 83269666        |
|                                                                                                                  | C              | W1         | 83261806   | 83262806   | 83263806   | 83264806     | 83265806     | 83268806     | 83269806        |
|                                                                                                                  | C              | W2         | 83261816   | 83262816   | 83263816   | 83264816     | 83265816     | 83268816     | 83269816        |
|                                                                                                                  | C              | W3         | 83261826   | 83262826   | 83263826   | 83264826     | 83265826     | 83268826     | 83269826        |
|                                                                                                                  | C              | W3R5       | 83261836   | 83262836   | 83263836   | 83264836     | 83265836     | 83268836     | 83269836        |
|                                                                                                                  | C              | W6A5       | 83261846   | 83262846   | 83263846   | 83264846     | 83265846     | 83268846     | 83269846        |
|                                                                                                                  | C              | W6D8       | 83261856   | 83262856   | 83263856   | 83264856     | 83265856     | 83268856     | 83269856        |
|                                                                                                                  | C              | W7A5       | 83261866   | -          | 83263866   | 83264866     | 83265866     | 83268866     | 83269866        |
| <br>Lever 260E<br>R13.7 Pos B | I              | W1         | 83261007   | 83262007   | 83263007   | 83264007     | 83265007     | 83268007     | 83269007        |
|                                                                                                                  | I              | W2         | 83261017   | 83262017   | 83263017   | 83264017     | 83265017     | 83268017     | 83269017        |
|                                                                                                                  | I              | W3         | 83261027   | 83262027   | 83263027   | 83264027     | 83265027     | 83268027     | 83269027        |
|                                                                                                                  | I              | W3R5       | 83261037   | 83262037   | 83263037   | 83264037     | 83265037     | 83268037     | 83269037        |
|                                                                                                                  | I              | W6A5       | 83261047   | 83262047   | 83263047   | 83264047     | 83265047     | 83268047     | 83269047        |
|                                                                                                                  | I              | W6D8       | 83261057   | 83262057   | 83263057   | 83264057     | 83265057     | 83268057     | 83269057        |
|                                                                                                                  | I              | W7A5       | 83261067   | -          | 83263067   | 83264067     | 83265067     | 83268067     | 83269067        |
|                                                                                                                  | I              | X2         | 83261077   | -          | 83263077   | 83264077     | 83265077     | 83268077     | 83269077        |
|                                                                                                                  | I              | X3         | 83261087   | -          | 83263087   | 83264087     | 83265087     | 83268087     | 83269087        |
|                                                                                                                  | I              | X1         | 83261097   | -          | 83263097   | 83264097     | 83265097     | 83268097     | 83269097        |
|                                                                                                                  | R              | W1         | 83261607   | 83262607   | 83263607   | 83264607     | 83265607     | 83268607     | 83269607        |
|                                                                                                                  | R              | W2         | 83261617   | 83262617   | 83263617   | 83264617     | 83265617     | 83268617     | 83269617        |
|                                                                                                                  | R              | W3         | 83261627   | 83262627   | 83263627   | 83264627     | 83265627     | 83268627     | 83269627        |
|                                                                                                                  | R              | W3R5       | 83261637   | 83262637   | 83263637   | 83264637     | 83265637     | 83268637     | 83269637        |
|                                                                                                                  | R              | W6A5       | 83261647   | 83262647   | 83263647   | 83264647     | 83265647     | 83268647     | 83269647        |
|                                                                                                                  | R              | W6D8       | 83261657   | 83262657   | 83263657   | 83264657     | 83265657     | 83268657     | 83269657        |
|                                                                                                                  | R              | W7A5       | 83261667   | -          | 83263667   | 83264667     | 83265667     | 83268667     | 83269667        |
|                                                                                                                  | C              | W1         | 83261807   | 83262807   | 83263807   | 83264807     | 83265807     | 83268807     | 83269807        |
|                                                                                                                  | C              | W2         | 83261817   | 83262817   | 83263817   | 83264817     | 83265817     | 83268817     | 83269817        |
|                                                                                                                  | C              | W3         | 83261827   | 83262827   | 83263827   | 83264827     | 83265827     | 83268827     | 83269827        |
|                                                                                                                  | C              | W3R5       | 83261837   | 83262837   | 83263837   | 83264837     | 83265837     | 83268837     | 83269837        |
|                                                                                                                  | C              | W6A5       | 83261847   | 83262847   | 83263847   | 83264847     | 83265847     | 83268847     | 83269847        |
|                                                                                                                  | C              | W6D8       | 83261857   | 83262857   | 83263857   | 83264857     | 83265857     | 83268857     | 83269857        |
|                                                                                                                  | C              | W7A5       | 83261867   | -          | 83263867   | 83264867     | 83265867     | 83268867     | 83269867        |

## Note:

Function: **I** = Changeover - **R** = Normally closed - **C** = Normally open

Connection: **W1** = screws - **W2** = solder - **W3** = for 6.35 mm clips - **W3R5** = for Rast 5 connector

**W6A5** = for 4.8 x 0.5 mm clips - **W6D8** = for 4.8 x 0.8 mm clips - **W7A5** = for 2.8 x 0.5 mm clips

**X2** = rear side for PCB - **X3** = front side for PCB - **X1** = straight for PCB

|                                                                                                                  |          |            | Rating / Force | 16 A / 2 N | 20 A / 2 N | 16 A / 1 N | 12 A / 0.5 N | 5 A / 0.25 N | 0.05 A / 1 N | 0.05 A / 0.25 N |
|------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|------------|------------|------------|--------------|--------------|--------------|-----------------|
|                                                                                                                  |          |            | Type           | 83261      | 83262      | 83263      | 83264        | 83265        | 83268        | 83269           |
| Actuators                                                                                                        | Function | Connection |                |            |            |            |              |              |              |                 |
| <br>Lever 260E<br>R24.3 Pos B   | I        | W1         |                | 83261008   | 83262008   | 83263008   | 83264008     | 83265008     | 83268008     | 83269008        |
|                                                                                                                  | I        | W2         |                | 83261018   | 83262018   | 83263018   | 83264018     | 83265018     | 83268018     | 83269018        |
|                                                                                                                  | I        | W3         |                | 83261028   | 83262028   | 83263028   | 83264028     | 83265028     | 83268028     | 83269028        |
|                                                                                                                  | I        | W3R5       |                | 83261038   | 83262038   | 83263038   | 83264038     | 83265038     | 83268038     | 83269038        |
|                                                                                                                  | I        | W6A5       |                | 83261048   | 83262048   | 83263048   | 83264048     | 83265048     | 83268048     | 83269048        |
|                                                                                                                  | I        | W6D8       |                | 83261058   | 83262058   | 83263058   | 83264058     | 83265058     | 83268058     | 83269058        |
|                                                                                                                  | I        | W7A5       |                | 83261068   | -          | 83263068   | 83264068     | 83265068     | 83268068     | 83269068        |
|                                                                                                                  | I        | X2         |                | 83261078   | -          | 83263078   | 83264078     | 83265078     | 83268078     | 83269078        |
|                                                                                                                  | I        | X3         |                | 83261088   | -          | 83263088   | 83264088     | 83265088     | 83268088     | 83269088        |
|                                                                                                                  | I        | X1         |                | 83261098   | -          | 83263098   | 83264098     | 83265098     | 83268098     | 83269098        |
|                                                                                                                  | R        | W1         |                | 83261608   | 83262608   | 83263608   | 83264608     | 83265608     | 83268608     | 83269608        |
|                                                                                                                  | R        | W2         |                | 83261618   | 83262618   | 83263618   | 83264618     | 83265618     | 83268618     | 83269618        |
|                                                                                                                  | R        | W3         |                | 83261628   | 83262628   | 83263628   | 83264628     | 83265628     | 83268628     | 83269628        |
|                                                                                                                  | R        | W3R5       |                | 83261638   | 83262638   | 83263638   | 83264638     | 83265638     | 83268638     | 83269638        |
|                                                                                                                  | R        | W6A5       |                | 83261648   | 83262648   | 83263648   | 83264648     | 83265648     | 83268648     | 83269648        |
|                                                                                                                  | R        | W6D8       |                | 83261658   | 83262658   | 83263658   | 83264658     | 83265658     | 83268658     | 83269658        |
|                                                                                                                  | R        | W7A5       |                | 83261668   | -          | 83263668   | 83264668     | 83265668     | 83268668     | 83269668        |
|                                                                                                                  | C        | W1         |                | 83261808   | 83262808   | 83263808   | 83264808     | 83265808     | 83268808     | 83269808        |
|                                                                                                                  | C        | W2         |                | 83261818   | 83262818   | 83263818   | 83264818     | 83265818     | 83268818     | 83269818        |
|                                                                                                                  | C        | W3         |                | 83261828   | 83262828   | 83263828   | 83264828     | 83265828     | 83268828     | 83269828        |
|                                                                                                                  | C        | W3R5       |                | 83261838   | 83262838   | 83263838   | 83264838     | 83265838     | 83268838     | 83269838        |
|                                                                                                                  | C        | W6A5       |                | 83261848   | 83262848   | 83263848   | 83264848     | 83265848     | 83268848     | 83269848        |
|                                                                                                                  | C        | W6D8       |                | 83261858   | 83262858   | 83263858   | 83264858     | 83265858     | 83268858     | 83269858        |
|                                                                                                                  | C        | W7A5       |                | 83261868   | -          | 83263868   | 83264868     | 83265868     | 83268868     | 83269868        |
| <br>Lever 260G<br>R13.8 Pos B | I        | W1         |                | 83261009   | 83262009   | 83263009   | 83264009     | 83265009     | 83268009     | 83269009        |
|                                                                                                                  | I        | W2         |                | 83261019   | 83262019   | 83263019   | 83264019     | 83265019     | 83268019     | 83269019        |
|                                                                                                                  | I        | W3         |                | 83261029   | 83262029   | 83263029   | 83264029     | 83265029     | 83268029     | 83269029        |
|                                                                                                                  | I        | W3R5       |                | 83261039   | 83262039   | 83263039   | 83264039     | 83265039     | 83268039     | 83269039        |
|                                                                                                                  | I        | W6A5       |                | 83261049   | 83262049   | 83263049   | 83264049     | 83265049     | 83268049     | 83269049        |
|                                                                                                                  | I        | W6D8       |                | 83261059   | 83262059   | 83263059   | 83264059     | 83265059     | 83268059     | 83269059        |
|                                                                                                                  | I        | W7A5       |                | 83261069   | -          | 83263069   | 83264069     | 83265069     | 83268069     | 83269069        |
|                                                                                                                  | I        | X2         |                | 83261079   | -          | 83263079   | 83264079     | 83265079     | 83268079     | 83269079        |
|                                                                                                                  | I        | X3         |                | 83261089   | -          | 83263089   | 83264089     | 83265089     | 83268089     | 83269089        |
|                                                                                                                  | I        | X1         |                | 83261099   | -          | 83263099   | 83264099     | 83265099     | 83268099     | 83269099        |
|                                                                                                                  | R        | W1         |                | 83261609   | 83262609   | 83263609   | 83264609     | 83265609     | 83268609     | 83269609        |
|                                                                                                                  | R        | W2         |                | 83261619   | 83262619   | 83263619   | 83264619     | 83265619     | 83268619     | 83269619        |
|                                                                                                                  | R        | W3         |                | 83261629   | 83262629   | 83263629   | 83264629     | 83265629     | 83268629     | 83269629        |
|                                                                                                                  | R        | W3R5       |                | 83261639   | 83262639   | 83263639   | 83264639     | 83265639     | 83268639     | 83269639        |
|                                                                                                                  | R        | W6A5       |                | 83261649   | 83262649   | 83263649   | 83264649     | 83265649     | 83268649     | 83269649        |
|                                                                                                                  | R        | W6D8       |                | 83261659   | 83262659   | 83263659   | 83264659     | 83265659     | 83268659     | 83269659        |
|                                                                                                                  | R        | W7A5       |                | 83261669   | -          | 83263669   | 83264669     | 83265669     | 83268669     | 83269669        |
|                                                                                                                  | C        | W1         |                | 83261809   | 83262809   | 83263809   | 83264809     | 83265809     | 83268809     | 83269809        |
|                                                                                                                  | C        | W2         |                | 83261819   | 83262819   | 83263819   | 83264819     | 83265819     | 83268819     | 83269819        |
|                                                                                                                  | C        | W3         |                | 83261829   | 83262829   | 83263829   | 83264829     | 83265829     | 83268829     | 83269829        |
|                                                                                                                  | C        | W3R5       |                | 83261839   | 83262839   | 83263839   | 83264839     | 83265839     | 83268839     | 83269839        |
|                                                                                                                  | C        | W6A5       |                | 83261849   | 83262849   | 83263849   | 83264849     | 83265849     | 83268849     | 83269849        |
|                                                                                                                  | C        | W6D8       |                | 83261859   | 83262859   | 83263859   | 83264859     | 83265859     | 83268859     | 83269859        |
|                                                                                                                  | C        | W7A5       |                | 83261869   | -          | 83263869   | 83264869     | 83265869     | 83268869     | 83269869        |

**Note:**

Function: **I** = Changeover - **R** = Normally closed - **C** = Normally open

Connection: **W1** = screws - **W2** = solder - **W3** = for 6.35 mm clips - **W3R5** = for Rast 5 connector

**W6A5** = for 4.8 x 0.5 mm clips - **W6D8** = for 4.8 x 0.8 mm clips - **W7A5** = for 2.8 x 0.5 mm clips

**X2** = rear side for PCB - **X3** = front side for PCB - **X1** = straight for PCB



Headquartered in Moorpark, California-USA, **Custom Sensors & Technologies (CST)** is made up of the leading brands of Crouzet, Kavlico and Crydom, as well as the former divisions of BEI Technologies, including Newall and Systron Donner. CST provides sensors, controls, and actuation products to the transportation, industrial, and aerospace & defense markets.

[www.cstsensors.com](http://www.cstsensors.com)

Distributed by:

#### Crouzet Automatismes SAS

2 rue du Docteur Abel - BP 59  
26902 Valence CEDEX 9  
FRANCE

[www.crouzet.com](http://www.crouzet.com)

CRZ BR 42/A EN  
Ref. 67231008 EN  
11/2009

#### AMERICA

##### BRAZIL

**Custom Sensors & Technologies**  
**Crouzet Latinoamerica**  
Alameda Rio Negro  
1084 - cj.A31  
CEP 06454-000 - Alphaville - SP BRASIL  
Tel. : +55 (11) 4191 9797  
Fax : +55 (11) 4191 9136  
E-mail : [info@cst-latinoamerica.com](mailto:info@cst-latinoamerica.com)  
[www.crouzet.com.br](http://www.crouzet.com.br)  
[www.cst-latinoamerica.com](http://www.cst-latinoamerica.com)



**USA/CANADA/MEXICO**  
**Custom Sensors & Technologies - Crouzet**  
7230 Hollister Avenue  
Goleta, CA, 93117  
USA  
Tel. : +1 (800) 677 5311  
Fax : +1 (800) 677 3865  
E-mail : [customerservice@us.crouzet.com](mailto:customerservice@us.crouzet.com)  
[www.crouzet.com](http://www.crouzet.com)



##### OTHER COUNTRIES

**Custom Sensors & Technologies**  
**Crouzet Latinoamerica**  
Alameda Rio Negro  
1084 - cj.A31  
CEP 06454-000 - Alphaville - SP BRASIL  
Tel. : +55 (11) 4191 9797  
Fax : +55 (11) 4191 9136  
E-mail : [info@cst-latinoamerica.com](mailto:info@cst-latinoamerica.com)  
[www.crouzet.com.br](http://www.crouzet.com.br)  
[www.cst-latinoamerica.com](http://www.cst-latinoamerica.com)

#### EUROPE MIDDLE EAST AFRICA

##### AUSTRIA

**Crouzet GmbH**  
Zweigniederlassung Österreich  
Spengergasse 1/3  
1050 Wien  
ÖSTERREICH  
Tel. : +43 (0) 1 36 85 471  
Fax : +43 (0) 1 36 85 472  
E-mail : [info-direkt@crouzet.com](mailto:info-direkt@crouzet.com)  
[www.crouzet.at](http://www.crouzet.at)

##### BELGIUM

**Crouzet NV/SA**  
Dieweg 3 B  
B - 1180 Uccle  
BELGIUM  
Tel. : +32 (0) 2 462 07 30  
Fax : +32 (0) 2 461 00 23  
E-mail : [com-be@crouzet.com](mailto:com-be@crouzet.com)  
[www.crouzet.be](http://www.crouzet.be)



**SWITZERLAND**  
**Crouzet AG**  
Gewerbepark - Postfach 56  
5506 Mägenwil  
SCHWEIZ  
Tel. : +41(0) 62 887 30 30  
Fax : +41(0) 62 887 30 40  
E-mail : [info-direkt@crouzet.com](mailto:info-direkt@crouzet.com)  
[www.crouzet.ch](http://www.crouzet.ch)

##### FRANCE

**Crouzet Automatismes SAS**  
2 rue du Docteur Abel - BP 59  
26902 Valence CEDEX 9  
FRANCE  
Tel. : +33 (0) 4 75 44 88 44  
Fax : +33 (0) 4 75 55 98 03  
E-mail : [com-fr@crouzet.com](mailto:com-fr@crouzet.com)  
[www.crouzet.fr](http://www.crouzet.fr)

##### Customer service

**Indigo** 0 825 333 351

**Azur FAX** 0 810 610 102



##### GERMANY

**Crouzet GmbH**  
Otto-Hahn-Str. 3, 40721 Hilden  
Postfach 203, 40702 Hilden  
DEUTSCHLAND  
Tel. : +49 (0) 21 03 9 80-171  
Fax : +49 (0) 21 03 9 80-222  
E-mail : [info-direkt@crouzet.com](mailto:info-direkt@crouzet.com)  
[www.crouzet.de](http://www.crouzet.de)



##### ITALY

**Crouzet Componenti s.r.l.**  
Via Viganò De Vizzi, 93/95  
20092 Cinisello Balsamo (MI)  
ITALIA  
Tel. : +39 (02) 66 599 250  
Fax : +39 (02) 66 599 258  
E-mail : [crz-it-sensori-micro@crouzet.com](mailto:crz-it-sensori-micro@crouzet.com)  
[www.crouzet.it](http://www.crouzet.it)



##### SPAIN/PORTUGAL

**Crouzet Ibérica**  
C/ Aragón 224, 2º 2ª  
08011 Barcelona  
ESPAÑA  
Tel. : +34 (93) 484 39 70  
Fax : +34 (93) 484 39 73  
E-mail : [es-consultas@crouzet.es](mailto:es-consultas@crouzet.es)  
[www.crouzet.es](http://www.crouzet.es)



##### THE NETHERLANDS

**Crouzet BV**  
Industrieweg 17  
2382 NR Zoeterwoude  
NEDERLAND  
Tel. : +31 (0) 71-581 20 30  
Fax : +31 (0) 71-541 35 74  
E-mail : [com-nl@crouzet.com](mailto:com-nl@crouzet.com)  
[www.crouzet.nl](http://www.crouzet.nl)



##### UNITED KINGDOM

**Crouzet Ltd**  
8 Cedarwood  
Chineham Business Park  
Crockford Lane  
Basingstoke, Hampshire  
RG24 8WD  
UNITED KINGDOM  
Tel. : +44 (0)1256 318 900  
Fax : +44 (0)1256 318 901  
E-mail : [info@crouzet.co.uk](mailto:info@crouzet.co.uk)  
[www.crouzet.co.uk](http://www.crouzet.co.uk)



##### OTHER COUNTRIES

**Crouzet Automatismes SAS**  
2 rue du Docteur Abel - BP 59  
26902 Valence CEDEX 9  
FRANCE  
Tel. : +33 (0) 475 802 102  
Fax : +33 (0) 475 448 126  
E-mail : [com-ex@crouzet.com](mailto:com-ex@crouzet.com)  
[www.crouzet.com](http://www.crouzet.com)



##### ASIA PACIFIC

##### CHINA & HONG KONG

**Custom Sensors & Technologies Asia (Shanghai) Limited - Crouzet**  
2 Floor, Innovation Building  
No. 1009, Yi Shan Road  
Shanghai 200233  
CHINA  
Tel. : +86 (21) 2401 7766  
Fax : +86 (21) 6249 0701  
E-mail : [china@cstsensors.com](mailto:china@cstsensors.com)  
[www.crouzet.cn](http://www.crouzet.cn)  
[www.cstsensors.com](http://www.cstsensors.com)



**INDIA**  
**Custom Sensors & Technologies - Crouzet**  
Prestige Meridian II  
No. 30, 13th Floor,  
Unit No: 1301 & 1302  
Mahatma Gandhi Road  
Bangalore 560 001  
INDIA  
Tel. : +91 (0) 80 4113 2204/05  
Fax : +91 (0) 80 4113 2206  
E-mail : [crz\\_bangalore@crouzet.com](mailto:crz_bangalore@crouzet.com)  
[www.crouzet.co.in](http://www.crouzet.co.in)  
[www.cstsensors.com](http://www.cstsensors.com)



**TAIWAN**  
**Custom Sensors & Technologies - Crouzet**  
3F, No. 39, Ji-Hu Road  
Nei-Hu Dist. - Taipei 114  
TAIWAN  
Tel. : +886 (0)2 8751 6388  
Fax : +886 (0)2 2657 8725  
E-mail : [taiwan@cstsensors.com](mailto:taiwan@cstsensors.com)  
[www.crouzet.tw](http://www.crouzet.tw)  
[www.cstsensors.com](http://www.cstsensors.com)



**KOREA & JAPAN**  
**Custom Sensors & Technologies - Crouzet**  
5F, Jell Bldg.  
94-46 Youngdeungpo-dong  
7-ga Youngdeungpo-gu  
Seoul 150-037  
SOUTH KOREA  
Tel. : +82 (0)2 2629 8312  
Fax : +82 (0)2 2629 8310  
E-mail : [korea@cstsensors.com](mailto:korea@cstsensors.com)  
[www.crouzet.tw](http://www.crouzet.tw)  
[www.cstsensors.com](http://www.cstsensors.com)



**SOUTH EAST ASIA & PACIFIC**  
**Custom Sensors & Technologies - Crouzet**  
3F, No. 39, Ji-Hu Road  
Nei-Hu Dist. - Taipei 114  
TAIWAN  
Tel. : +886 (0)2 8751 6388  
Fax : +886 (0)2 2657 8725  
E-mail : [eap@cstsensors.com](mailto:eap@cstsensors.com)  
[www.crouzet.tw](http://www.crouzet.tw)  
[www.cstsensors.com](http://www.cstsensors.com)

**Warning:**  
The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. CROUZET Automatismes and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

Creation-Design: 3C Evolution, Crouzet Automatismes  
Editing-Publishing: 3C Evolution  
Photos-Graphics: Ginko, Daniel Lattard, Schneider Electric  
Printing:



## 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