



## PS116-Z11-ST-K230

- Snap action 1 Normally open contact (NO) / 1 Opener (NC)
- connector plug M12, bottom
- Thermoplastic enclosure
- Symmetric enclosure
- Protection class IP66, IP67
- Actuator heads can be repositioned by 8 x 45°

## Data

### Ordering data

|                               |                   |
|-------------------------------|-------------------|
| Product type description      | PS116-Z11-ST-K230 |
| Article number (order number) | 103006658         |
| EAN (European Article Number) | 4030661442891     |
| eCl@ss number, version 9.0    | 27-27-26-01       |
| eCl@ss number, version 11.0   | 27-27-26-01       |
| eCl@ss number, version 12.0   | 27-27-26-01       |
| ETIM number, version 7.0      | EC000030          |
| ETIM number, version 6.0      | EC000030          |

### Approvals - Standards

|              |                     |
|--------------|---------------------|
| Certificates | cULus<br>CCC<br>EAC |
|--------------|---------------------|

### General data

|                       |                  |
|-----------------------|------------------|
| Standards             | EN IEC 60947-5-1 |
| Terminal (mechanical) | bottom           |

|                                      |                                                                         |
|--------------------------------------|-------------------------------------------------------------------------|
| Housing construction form            | Norm construction design                                                |
| Enclosure material                   | Plastic, glass-fibre reinforced thermoplastic, zinc die-cast, chromated |
| Material of the contacts, electrical | Silver                                                                  |
| Gross weight                         | 59 g                                                                    |

### General data - Features

|                              |     |
|------------------------------|-----|
| Safety functions             | Yes |
| Number of auxiliary contacts | 1   |
| Number of safety contacts    | 1   |

### Safety classification

|              |                |
|--------------|----------------|
| Standards    | EN ISO 13849-1 |
| Mission time | 20 Year(s)     |

### Safety classification - Safety outputs

|                                               |                       |
|-----------------------------------------------|-----------------------|
| B <sub>10D</sub> Normally-closed contact (NC) | 20,000,000 Operations |
|-----------------------------------------------|-----------------------|

### Mechanical data

|                               |                         |
|-------------------------------|-------------------------|
| Actuating element             | Angle roller lever K230 |
| Mechanical life, minimum      | 10,000,000 Operations   |
| Actuating force, minimum      | 9.5 N                   |
| Positive break force, minimum | 40 N                    |
| Actuating speed, minimum      | 27 mm/min               |
| Actuating speed, maximum      | 1 m/s                   |
| Actuating torque, minimum     | 0.2 Nm                  |
| Positive break torque         | 0.6 Nm                  |

### Mechanical data - Connection technique

Termination

Connector M12, 4-pole

### Mechanical data - Dimensions

|                    |         |
|--------------------|---------|
| Length of sensor   | 16.6 mm |
| Width of sensor    | 31 mm   |
| Height of sensor   | 82 mm   |
| Diameter of Castor | 14 mm   |

### Ambient conditions

|                              |              |
|------------------------------|--------------|
| Degree of protection         | IP67<br>IP66 |
| Ambient temperature, minimum | -30 °C       |
| Ambient temperature, maximum | +80 °C       |

### Ambient conditions - Insulation values

|                                           |        |
|-------------------------------------------|--------|
| Rated insulation voltage $U_i$            | 300 V  |
| Rated impulse withstand voltage $U_{imp}$ | 2.5 kV |

### Electrical data

|                                                      |                        |
|------------------------------------------------------|------------------------|
| Thermal test current                                 | 2.5 A                  |
| Required rated short-circuit current to EN 60947-5-1 | 400 A                  |
| Utilisation category AC-15                           | 240 VAC                |
| Utilisation category AC-15                           | 1.5 A                  |
| Utilisation category DC-13                           | 24 VDC                 |
| Utilisation category DC-13                           | 1.5 A                  |
| Switching element                                    | NO contact, NC contact |
| Switching principle                                  | Snap action            |
| Bounce duration, maximum                             | 3 ms                   |
| Switching frequency                                  | 5,000 /h               |
| Switchover time, maximum                             | 5.5 ms                 |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, 42279 Wuppertal

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on: 26/08/2022, 11:56