



## IFL 2-12L-10STN

- Metal enclosure
- DC 3-wire
- Long design
- Connector M12
- Design M12

## Data

### Ordering data

|                               |                 |
|-------------------------------|-----------------|
| Product type description      | IFL 2-12L-10STN |
| Article number (order number) | 101114553       |
| EAN (European Article Number) | 4030661047362   |
| eCl@ss number, version 9.0    | 27-27-01-01     |
| eCl@ss number, version 11.0   | 27-27-01-01     |
| ETIM number, version 7.0      | EC002714        |
| ETIM number, version 6.0      | EC002714        |

### Approvals - Standards

|              |     |
|--------------|-----|
| Certificates | CCC |
|--------------|-----|

### General data

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Standards                            | EN IEC 60947-5-2<br>DIN VDE 0660-208 |
| Housing construction form            | Cylinder, thread                     |
| Installation conditions (mechanical) | flush                                |
| Enclosure material                   | Brass                                |

|                            |                     |
|----------------------------|---------------------|
| Enclosure coating material | nickel-plated       |
| Active area                | Plastic             |
| Material of the nuts       | Nickel plated brass |
| Gross weight               | 35 g                |

### General data - Features

|                                     |     |
|-------------------------------------|-----|
| Integral system diagnostics, status | Yes |
| Number of cable wires               | 3   |

### Mechanical data - Switching distances according EN IEC 60947-5-3

|                                  |      |
|----------------------------------|------|
| Nominal switching distance $S_n$ | 2 mm |
|----------------------------------|------|

### Mechanical data - Connection technique

|             |               |
|-------------|---------------|
| Termination | Connector M12 |
|-------------|---------------|

### Mechanical data - Dimensions

|                          |       |
|--------------------------|-------|
| ISO thread of the sensor | M12   |
| Length of sensor         | 71 mm |

### Ambient conditions

|                              |        |
|------------------------------|--------|
| Degree of protection         | IP67   |
| Ambient temperature, minimum | -25 °C |
| Ambient temperature, maximum | +70 °C |
| Protection class             | 0      |

### Electrical data

|                            |                     |
|----------------------------|---------------------|
| Voltage type               | DC (direct current) |
| Operating voltage, minimum | 10 V                |
| Operating voltage, maximum | 30 V                |

|                                        |                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| No-load supply current $I_0$ , maximum | 3 mA                                                                                                              |
| Operating current                      | 200 mA                                                                                                            |
| Switching element                      | Normally open contact (NO)                                                                                        |
| Protection circuit integrated          | inductive interference protection<br>Protection against polarity reversal<br>Surge protection<br>Max. fuse rating |
| Switching frequency, approx.           | 800 Hz                                                                                                            |

### Electrical data - Digital Output

|                               |        |
|-------------------------------|--------|
| Voltage drop $U_d$ , maximum  | 1.2 V  |
| Current at Voltage drop $U_d$ | 0.2 A  |
| Design of control elements    | n-type |

### Status indication

|                                             |            |
|---------------------------------------------|------------|
| Note (Integral System Diagnostics, status ) | yellow LED |
|---------------------------------------------|------------|

### Note

|                |                                                    |
|----------------|----------------------------------------------------|
| Note (General) | Instead of nuts, a mounting clamp can be provided. |
|----------------|----------------------------------------------------|

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, 11:27