



## TESFA/S/CC/180

- 2 cable entries M 16 x 1.5
- with fixed switching angle
- Metal enclosure
- Good resistance to oil and petroleum spirit
- For left or right hinged doors
- 141 mm x 115 mm x 21,5 mm
- Simple mounting, [REDACTED]  
[REDACTED] (30 ... 60 mm)

## Data

### Ordering data

|                               |               |
|-------------------------------|---------------|
| EAN (European Article Number) | 4030661449029 |
| eCl@ss number, Version 9.0    | 27-27-06-09   |
| eCl@ss number, Version 11.0   | 27-27-06-09   |
| ETIM number, version 6.0      | EC002591      |
| ETIM number, version 7.0      | EC002591      |

### Approval - Standards

|              |       |
|--------------|-------|
| Certificates | cULus |
|              | CCC   |
|              | EAC   |

### General data

|                    |                             |
|--------------------|-----------------------------|
| Standards          | EN 60947-5-1<br>BG-GS-ET-15 |
| Enclosure material | Zinc die-cast               |

|                                      |                        |
|--------------------------------------|------------------------|
| Material of the contacts, electrical | Silver-nickel alloy 10 |
| Colour of the housing                | Black                  |
| Gross weight                         | 616 g                  |

### General data - Features

|                              |     |
|------------------------------|-----|
| Mounting inside              | Yes |
| Alignment aid                | Yes |
| Number of auxiliary contacts | 2   |
| Number of safety contacts    | 2   |

### Safety appraisal

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

### Safety appraisal - Safety outputs

|                                   |                      |
|-----------------------------------|----------------------|
| B10d Normally-closed contact (NC) | 2,000,000 Operations |
| B10d Normally open contact (NO)   | 1,000,000 Operations |

### Mechanical data

|                          |                      |
|--------------------------|----------------------|
| Mechanical life, minimum | 1,000,000 Operations |
| Positive break angle     | 14 °                 |
| Opening angle            | 180°                 |

### Mechanical data - Connection technique

|                        |                          |
|------------------------|--------------------------|
| Terminal Connector     | Spring pulley connection |
| Cable section, minimum | 0.5 mm <sup>2</sup>      |
| Cable section, maximum | 1 mm <sup>2</sup>        |

Note (Cable section)

All indications about the cable section are including the conductor ferrules.

### Mechanical data - Dimensions

|                  |         |
|------------------|---------|
| Length of sensor | 21.5 mm |
| Width of sensor  | 141 mm  |
| Height of sensor | 115 mm  |

### Ambient conditions

|                              |        |
|------------------------------|--------|
| Degree of protection         | IP65   |
| Ambient temperature, minimum | -25 °C |
| Ambient temperature, maximum | +65 °C |

### Ambient conditions - Insulation value

|                                           |        |
|-------------------------------------------|--------|
| Rated insulation voltage $U_i$            | 250 V  |
| Rated impulse withstand voltage $U_{imp}$ | 2.5 kV |

### Electrical data

|                            |                        |
|----------------------------|------------------------|
| Thermal test current       | 2.5 A                  |
| Utilisation category AC-15 | 230 VAC                |
| Utilisation category AC-15 | 2 A                    |
| Utilisation category DC-13 | 24 VDC                 |
| Utilisation category DC-13 | 1 A                    |
| Switching element          | NO contact, NC contact |
| Switching principle        | Creep circuit element  |
| Switching frequency        | 1,200 /h               |

### Notes

Note (General)

Closed guard device = 0° in contact switch travel diagrams.

The factory-set switching angle is 3°.

Until the limit of the mechanical life has been reached the angle can increase up to 8° under normal wear-out conditions.

The positive break angle is 5°.

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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.

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