



TESFA/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

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	IFA cULus CCC EAC
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General data

Standards	EN 60947-5-1 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	840 g

General data - Features

Mounting inside	Yes
Additional hinge	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	Screw connection
Cable section, minimum	0.5 mm ²
Cable section, maximum	1 mm ²

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

Scope of delivery

Included in delivery

Additional hinge

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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