



TS 236-11Z-M20

- 1 Cable entry M 20 x 1.5
- Thermoplastic enclosure
- Good resistance to oil and petroleum spirit
- Wide range of alternative actuators
- 30 mm x 58,5 mm x 30 mm
- Double-insulated
- Mounting details to EN 50047
- Actuator heads can be repositioned by 4 x 90°

Data

Ordering data

Note (Delivery capacity)	Not available!
Product type description	TS 236-11Z-M20
Article number (order number)	101152880
EAN (European Article Number)	4030661166711
eCl@ss number, version 12.0	27-27-26-01
eCl@ss number, version 11.0	27-27-26-01
eCl@ss number, version 9.0	27-27-26-01
ETIM number, version 7.0	EC000030
ETIM number, version 6.0	EC000030

Approvals - Standards

Certificates	cULus CCC
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General data

Standards	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
Housing construction form	Norm construction design
Actuator type to EN 50047	B
Housing material	Plastic, glass-fibre-reinforced
Gross weight	72 g

General data - Features

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

Safety classification

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

Safety classification - Safety outputs

B _{10D} Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Plunger
Mechanical life, minimum	20,000,000 Operations
Actuating force, minimum	9 N
Positive break force, minimum	19 N
Actuating speed, minimum	60 mm/min
Actuating speed, maximum	1 m/s
Note Bounce duration	Bounce duration in accordance with actuating speed
Note (Switchover time)	Switchover time in accordance with actuating speed

Mechanical data - Connection technique

Termination	Screw terminals M20 x 1.5
Cable section, minimum	0.75 mm ²
Cable section, maximum	2.5 mm ²
Note	All indications including the conductor ferrules.

Mechanical data - Dimensions

Length of sensor	30 mm
Width of sensor	30 mm
Height of sensor	73.5 mm

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature	-30 ... +80 °C

Ambient conditions - Insulation values

Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6 kV

Electrical data

Thermal test current	10 A
Required rated short-circuit current	1,000 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	4 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	1 A
Switching element	NO contact, NC contact
Switching principle	Slow action
Maximale Schalthäufigkeit	5,000 /h

Material of the contacts, electrical

Silver

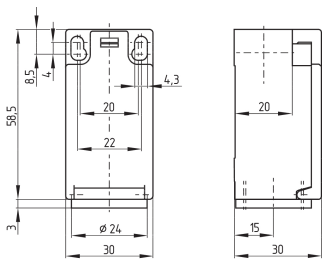
Pictures

Product picture (catalogue individual photo)



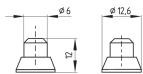
ID: k236sf01
| 776.0 kB | .jpg | 352.778 x 692.856 mm - 1000 x 1964 px - 72 dpi
| 85.8 kB | .png | 74.083 x 145.344 mm - 210 x 412 px - 72 dpi
| 35.4 kB | .jpg | 62.794 x 123.472 mm - 178 x 350 px - 72 dpi

Dimensional drawing basic component



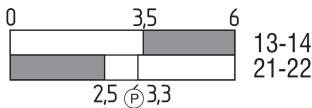
ID: 1-236g01
| 4.0 kB | .png | 74.083 x 73.378 mm - 210 x 208 px - 72 dpi
| 115.0 kB | .jpg | 352.778 x 349.956 mm - 1000 x 992 px - 72 dpi

Dimensional drawing actuator



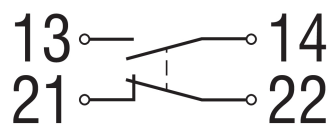
ID: 1s236g01
| 36.9 kB | .cdr |
| 1.7 kB | .png | 74.083 x 52.211 mm - 210 x 148 px - 72 dpi
| 29.8 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 px - 72 dpi

Switch travel diagram



ID: kr235s08
| 25.0 kB | .cdr |
| 1.7 kB | .png | 74.083 x 23.283 mm - 210 x 66 px - 72 dpi
| 45.0 kB | .jpg | 352.778 x 111.478 mm - 1000 x 316 px - 72 dpi

Diagram



ID: k1o1sk01
| 52.2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi
| 2.6 kB | .png | 74.083 x 29.986 mm - 210 x 85 px - 72 dpi

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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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