



TS256-20Z

- Double-insulated
- Thermoplastic enclosure
- 58 mm x 50,5 mm x 31 mm
- 2 cable entries M 20 x 1.5
- Mounting details to EN 50047
- Wide range of alternative actuators
- Good resistance to oil and petroleum spirit
- Actuator heads can be repositioned by 4 x 90°

Data

Ordering data

	TS 256-20Z
	101166887
EAN (European Article Number)	4030661216867
eCl@ss number, Version 9.0	27-27-06-01

Approval - Standards

cULus
cCSAus
CCC
EAC

General data

Product name	T 256 plunger S
	IEC 60947-5-1
	ISO 13849-1
	BG-GS-ET-15
Housing construction form	Norm construction design
Actuator type to DIN EN 50047	B
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Material of the contacts, electrical	Silver
Gross weight	70 g

General data - Features

Number of auxiliary contacts 2

Safety appraisal

Mission Time ISO 13849-1
20 Year(s)

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

Terminal Connector Screw connection
0.75 mm²
2.5 mm²
Note (Cable section) All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Height of sensor 62.5 mm
Length of sensor 31 mm
Width of sensor 58 mm

Ambient conditions

Ambient temperature, minimum IP67
-30 °C
Ambient temperature, maximum +80 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage 6 kV

Electrical data

Thermal test current 10 A

Required rated short-circuit current to EN 60947-5-1	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	Normally open contact (NO)
Switching principle	Creep circuit element
Switching frequency	5,000 /h

Notes

Note (General) Switch with 2 NO contacts are not for security tasks

Ordering code

Product type description:

(1)(2) 2(3)5-(4)Z(5)-(6)-(7)-(8)-(9)

(1)

Z Snap action

T Slow action (not available for AF/S)

(2)

S Plunger S

R Roller plunger R

4S Plunger 4S

4R Roller plunger 4R

1R Offset roller lever 1R

K Offset roller lever K

3K Angle roller lever 3K

4K Angle roller lever 4K

K4 Angle roller lever K4

1H Roller lever 1H

7H Roller lever 7H

10H Rod lever 10H

12H Roller lever 12H

14H Roller lever 14H

AF Spring rod lever AF

RMS Brass roller

(3)

3 slim design

5 large design

- (4)
- 02** 2 NC contact
- 11** 1 NO contacts/1 NC contact
- 20** 2 NO contacts, (switches with 2 NO contacts are not suitable for safety applications)
- (5)
- H** Slow action with staggered contacts
- UE** Slow action with overlapping contacts
- (6)
- without** Cable entry M20
- ID** IDC method of termination
- NPT** Cable entry NPT 1/2"
- ST** M12 connector with A-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
- ST-2310** M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
- (7)
- 2574** Enclosure with L-shaped mounting holes (horizontally or vertically adjustable)
- (8)
- 2138** Roller lever 7H for position switches with safety function
- (9)
- 1637** Gold-plated contacts

Pictures

Photo/Product/Catalogue



ID: k256sf01

| 75,9 kB | .png | 73.731 x 77.964 mm - 209 x 221

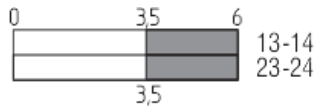
Pixel - 72 dpi

| 343,2 kB | .jpg | 184.503 x 194.733 mm - 523 x 552

Pixel - 72 dpi

Diagramm/Product/Travel

ID: kr235s10



| 1,6 kB | .png | 74.083 x 22.578 mm - 210 x 64 Pixel - 72 dpi

| 23,4 kB | .cdr |

| 36,8 kB | .jpg | 352.778 x 106.892 mm - 1000 x 303 Pixel - 72 dpi

Graphic/Product/Contact

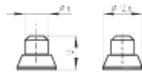


ID: k--2sk01

| 51,9 kB | .jpg | 352.778 x 135.819 mm - 1000 x 385 Pixel - 72 dpi

Dimension/Product/Actuator

ID: 1s236g01



| 36,9 kB | .cdr |

| 1,7 kB | .png | 74.083 x 52.211 mm - 210 x 148 Pixel - 72 dpi

| 29,8 kB | .jpg | 352.778 x 248.003 mm - 1000 x 703 Pixel - 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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