



Ex position switch Ex 97

Features/Options:

- Ex zone 1 and 21
- Thermoplastic enclosure
- Cold-resistant down to -60 °C
- High degree of protection IP 66 / IP 67 / IP 69
- Design to EN 50047
- Wiring compartment
- Double insulated
- Available with contact overlapping
- Actuator can be repositioned by 4 x 90°
- Rocking lever can be repositioned by 10° steps
- N.B.: Please state required international approvals with your order!

Notes

- 1 Ex"e" cable gland M20x1.5 included in delivery

Technical data

Standards	EN 60947-5-1; EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31; EN ISO 13849-1; EN ISO 14119
Enclosure	glass-fibre reinforced, shock-proof thermoplastic (PA 66), self-extinguishing UL 94-V0
Cover	glass-fibre reinforced, shock-proof thermoset material, self-extinguishing UL 94-V0
Switch type	type 1
Coding level	no coding
Switch insert	Type 8080/1 ...
Degree of protection	IP 66 to EN 60079-0 + IEC/EN 60529 (... -60 °C) IP 67 to EN 60079-0 + IEC/EN 60529 (... -20 °C) IP 67 / IP 69 to IEC/EN 60529 IP 69K to ISO 20653
Contact material	Silver, nickel-plated
Switching system	slow or snap action, positive break NC contacts \ominus ; positive break depends on the actuator used
Switching elements	1 NC/1 NO, 2 NC or 1 NC/1 NO contact with contact overlapping, type Zb
Connection	screw connection terminals, min. 0,75 mm ² AWG 18, max. 1,5 mm ² AWG 16, incl. conductor ferrules
Cable entry	M20 x 1,5; screwing depth max. 9 mm; use only Ex approved and certified cable glands with min. degree of protection IP 66 and suitable for the specified ambient temperature range
B _{10d} (10 % load)	2 million
T _M	max. 20 years
Utilisation category	AC-15
I _e	max. 2 A or 4 A <input type="checkbox"/>

Errors and omissions excepted.



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Technical data

U _e	max. 500 VAC, 2Ö: max. 400 VAC max. 250 VAC for unequal potential
Mechanical life	> 1 million operations
Impact energy	max. 7 J
Temperature class	T6
Ambient temperature	-60 °C ... +55 °C max. 4 A, +60 °C max. 2 A
Max. fuse rating	6 A gG/gN fuse
Ex marking	II 2G Ex db eb IIC T6 Gb, II 2D Ex tb IIIC T80 °C Db IECEx Ex db eb IIC T6 Gb, Ex tb IIIC T80 °C Db
Approvals	BVS 16 ATEX E 052 IECEX BVS 16.0052



Ordering details



Plunger with collar W

* with safety function

Type
 Ex ES 97 W-11 -60°C
 Ex ES 97 W-02 -60°C
 Ex ES 97 W-11U -60°C
 Ex EM 97 W-11 -60°C

Material no.
 1292311
 1430320
 on request
 1430318



Roller plunger R

* with safety function

Type
 Ex ES 97 R-11 -60°C
 Ex ES 97 R-02 -60°C
 Ex ES 97 R-11U -60°C
 Ex EM 97 R-11 -60°C

Material no.
 1336578
 1430395
 on request
 1430872



Ex position switch Ex 97

Ordering details



Long roller plunger RL

* with safety function

Type
Ex ES 97 RL-11 -60°C
Ex ES 97 RL-02 -60°C
Ex ES 97 RL-11U -60°C

Ex EM 97 RL-11 -60°C

Material no.
1336619
1430443
on request

1431037



Roller lever with collar WH

* with safety function

Type
Ex ES 97 WH-11 -60°C
Ex ES 97 WH-02 -60°C
Ex ES 97 WH-11U -60°C

Ex EM 97 WH-11 -60°C

Material no.
1336662
1430485
on request

1431110



Parallel roller lever with collar
WPH

* with safety function

Type
Ex ES 97 WPH-11 -60°C
Ex ES 97 WPH-02 -60°C
Ex ES 97 WPH-11U -60°C

Ex EM 97 WPH-11 -60°C

Material no.
1336702
1430536
on request

1431162



Rocking lever D

* with safety function

Type
Ex ES 97 D-11 -60°C
Ex ES 97 D-02 -60°C
Ex ES 97 D-11U -60°C

Ex EM 97 D-11 -60°C

Material no.
1336746
1430584
on request

1431213



Ex position switch Ex 97

Ordering details



Rocking lever with rubber roller
D50

* with safety function

Type
Ex ES 97 D50-11 -60°C
Ex ES 97 D50-02 -60°C
Ex ES 97 D50-11U -60°C

Ex EM 97 D50-11 -60°C

Material no.
1404832
1430640
on request

1431266



Adjustable rocking lever DS

Type
Ex ES 97 DS-11 -60°C
Ex ES 97 DS-02 -60°C
Ex ES 97 DS-11U -60°C

Ex EM 97 DS-11 -60°C

Material no.
1336789
1430692
1225938

1431346



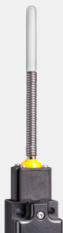
Rod lever DD

Type
Ex ES 97 DD-11 -60°C
Ex ES 97 DD-02 -60°C
Ex ES 97 DD-11U -60°C

Ex EM 97 DD-11 -60°C

Material no.
1336834
1430751
on request

1431494



Spring rod with plastic tip TK

Type
Ex ES 97 TK-11 -60°C
Ex ES 97 TK-02 -60°C

Ex EM 97 TK-11 -60°C

Material no.
1415038
1430809

1336295



Plastic spring rod TTK

Type
Ex ES 97 TTK-11 -60°C

Ex EM 97 TTK-11 -60°C

Material no.
1451424

1450769



Ex position switch
Ex 97

Accessories



Ex e cable glands for series Ex
97 / Ex 99

Type
Ex e cable gland M20x1.5 -60°C

Material no.
1405448