



Ex position switch Ex 14 / ExM 14

Features/Options:

- Ex zone 1 and 21
- Thermoplastic enclosure, double insulated
- Mounting details to EN 50047
- Suitable for in-line mounting
- With pre-wired cable
- Cold-resistant version down to -40 °C available on request
- Gold-plated contacts available on request
- With latching element (On-/Off principle) available on request
- Version with overlapping contacts available on request (only slow action)
- Special version only for dust Ex zone 22 available
- N.B.: Please state required international approvals with your order!

Technical data

Applied standards	EN 60947-5-1; EN 60079-0, EN 60079-1, EN 60079-31; EN ISO 13849-1; EN ISO 14119
Enclosure	glass-fibre reinforced, shock-proof thermoplastic, self-extinguishing UL 94-V0
Switch type	type 1
Coding level	no coding
Degree of protection	IP 65 to IEC/EN 60529
Contact material	silver
Switching system	Ex 14: slow action, positive break NC contacts \ominus ; positive break depends on the actuator used ExM 14: snap action
Switching elements	Ex 14: 1 NC/1 NO contact or 2 NC contacts, type Zb ExM 14: change-over contact with single break type C or 1 NC/1 NO contact, type Za
Connection	pre-wired cable H05VV-F
Cable cross-section	3 or 4 x 0.75 mm ² (incl. conductor ferrules)
B _{10d} (10 % load)	2 million
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	4 kV
Rated operating isolation voltage U _i	250 V
I _{the}	Ex 14: T6: 6 A; T5: 3 A ExM 14: 5 A
Rated operating current/voltage I _e /U _e	Ex 14: 6 A/250 VAC, 0.25 A/230 VDC; ExM 14: 5 A/250 VAC, 0.16 A/230 VDC; ExM 14 10/1S: 5 A/250 VAC, 0.25 A/230 VDC
Utilisation category	Ex 14, ExM 14: AC-15; DC-13 ExM 14 10/1S: AC-1; DC-1





Errors and omissions excepted.





Ex position switch Ex 14 / ExM 14

Technical data

Max. fuse rating	Ex 14: 6 A gG/gN fuse; ExM 14: 5 A gG/gN fuse
Ambient temperature	Ex 14: T6: -20 °C ... +65 °C, T5: -20 °C ... +75 °C, +90 °C with max. 3 A ExM 14: -20 °C ... +60 °C (down to -40 °C available on request)
Mechanical life	> 1 million operations
Operation cycles	max. 1800/h
Repeat accuracy of switching points	± 0.1 mm
Contact opening	max. 2 x 4 mm
Impact energy	max. 4 J

Ex marking	Ex 14:  II 2G Ex db IIC T6/T5 Gb,  II 2D Ex tb IIIC T80 °C/T95 °C Db ExM 14:  II 2G Ex d IIC T6 Gb,  II 2D Ex tb IIIC T80 °C Db IP65
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ExM 14 10/1S:
 II 2G Ex db IIC T6 Gb,
 II 2D Ex tb IIIC T80 °C Db

Approvals

Ex 14:
PTB 03 ATEX 1070 X
IECEX PTB 06.0098X



ExM 14:
PTB 03 ATEX 1069 X



ExM 14 10/1S:
PTB 00 ATEX 1006 X
IECEX PTB 13.0019X





Ex position switch Ex 14 / ExM 14

Ordering details



Plunger

* with safety function

Type

Ex 14 1Ö/1S - 2m
Ex 14 1Ö/1S - 5m
Ex 14 1Ö/1S - 10m
Ex 14 2Ö - 2m
Ex 14 2Ö - 5m
Ex 14 2Ö - 10m

Material no.

1160657
1045304
1045305
1216357
1181590
1184918

ExM 14 - 2m
ExM 14 - 5m
ExM 14 - 10m
ExM 14 1Ö/1S - 2m
ExM 14 1Ö/1S - 5m
ExM 14 1Ö/1S - 10m

1189090
1051855
1179279
1189182
1189183
1174439



Plunger with collar W

* with safety function

Type

Ex 14 W 1Ö/1S - 2m
Ex 14 W 1Ö/1S - 5m
Ex 14 W 1Ö/1S - 5m / -40°C
Ex 14 W 1Ö/1S - 10m
Ex 14 W 2Ö - 2m
Ex 14 W 2Ö - 5m
Ex 14 W 2Ö - 10m

Material no.

1180472
1166770
1428913
1166769
on request
on request
1181890

ExM 14 W - 2m
ExM 14 W - 5m
ExM 14 W - 10m
ExM 14 W 1Ö/1S - 2m
ExM 14 W 1Ö/1S - 5m
ExM 14 W 1Ö/1S - 10m

1189091
1184768
on request
1189184
1189185
1178784



Plunger for front mounting F

* with safety function

Type

Ex 14 F 1Ö/1S - 2m
Ex 14 F 1Ö/1S - 5m
Ex 14 F 1Ö/1S - 10m
Ex 14 F 2Ö - 2m
Ex 14 F 2Ö - 5m
Ex 14 F 2Ö - 10m

Material no.

1051550
1181627
1181948
on request
1184203
on request

ExM 14 F - 2m
ExM 14 F - 5m
ExM 14 F - 10m
ExM 14 F 1Ö/1S - 2m
ExM 14 F 1Ö/1S - 5m
ExM 14 F 1Ö/1S - 10m

1189092
1177799
1182350
1189186
1189187
on request



Ex position switch Ex 14 / ExM 14

Ordering details



Ball plunger KU

* with safety function

Type

Ex 14 KU 1Ö/1S - 2m
Ex 14 KU 1Ö/1S - 5m
Ex 14 KU 1Ö/1S - 10m
Ex 14 KU 2Ö - 2m
Ex 14 KU 2Ö - 5m
Ex 14 KU 2Ö - 10m

Material no.

1189013
1183793
1045344
on request
on request
on request

ExM 14 KU - 2m
ExM 14 KU - 5m
ExM 14 KU - 10m
ExM 14 KU 1Ö/1S - 2m
ExM 14 KU 1Ö/1S - 5m
ExM 14 KU 1Ö/1S - 10m

1189093
1189094
on request
1185368
1184247
on request



Ball plunger with collar WKU

* with safety function

Type

Ex 14 WKU 1Ö/1S - 2m
Ex 14 WKU 1Ö/1S - 5m
Ex 14 WKU 1Ö/1S - 10m
Ex 14 WKU 2Ö - 2m
Ex 14 WKU 2Ö - 5m
Ex 14 WKU 2Ö - 10m

Material no.

1179897
1045354
1185400
on request
on request
on request

ExM 14 WKU - 2m
ExM 14 WKU - 5m
ExM 14 WKU - 10m
ExM 14 WKU 1Ö/1S - 2m
ExM 14 WKU 1Ö/1S - 5m
ExM 14 WKU 1Ö/1S - 10m

1189095
1178276
on request
1189189
1179069
1184590



Ball plunger for front mounting
FKU

* with safety function

Type

Ex 14 FKU 1Ö/1S - 2m
Ex 14 FKU 1Ö/1S - 5m
Ex 14 FKU 1Ö/1S - 10m
Ex 14 FKU 2Ö - 2m
Ex 14 FKU 2Ö - 5m
Ex 14 FKU 2Ö - 10m

Material no.

1189139
1187885
1052964
on request
on request
on request

ExM 14 FKU - 2m
ExM 14 FKU - 5m
ExM 14 FKU - 10m
ExM 14 FKU 1Ö/1S - 2m
ExM 14 FKU 1Ö/1S - 5m
ExM 14 FKU 1Ö/1S - 10m

1189097
1189098
on request
1189191
1189202
1343696



Ex position switch Ex 14 / ExM 14

Ordering details



Vertical ball plunger VKU

* with safety function

Type

Ex 14 VKU 1Ö/1S - 2m
Ex 14 VKU 1Ö/1S - 5m
Ex 14 VKU 1Ö/1S - 10m
Ex 14 VKU 2Ö - 2m
Ex 14 VKU 2Ö - 5m
Ex 14 VKU 2Ö - 10m

Material no.

1189140
1178834
on request
on request
on request
on request

ExM 14 VKU - 2m
ExM 14 VKU - 5m
ExM 14 VKU - 10m
ExM 14 VKU 1Ö/1S - 2m
ExM 14 VKU 1Ö/1S - 5m
ExM 14 VKU 1Ö/1S - 10m

1189099
1045683
on request
1189203
1189204
on request



Roller plunger R

* with safety function

Type

Ex 14 R 1Ö/1S - 2m
Ex 14 R 1Ö/1S - 5m
Ex 14 R 1Ö/1S - 10m
Ex 14 R 2Ö - 2m
Ex 14 R 2Ö - 5m
Ex 14 R 2Ö - 10m

Material no.

1045364
1045361
1045365
on request
1180137
1186148

ExM 14 R - 2m
ExM 14 R - 5m
ExM 14 R - 10m
ExM 14 R 1Ö/1S - 2m
ExM 14 R 1Ö/1S - 5m
ExM 14 R 1Ö/1S - 10m

1189101
1176334
1045609
1173979
1171039
1178270



Roller plunger with collar WR

* with safety function

Type

Ex 14 WR 1Ö/1S - 2m
Ex 14 WR 1Ö/1S - 5m
Ex 14 WR 1Ö/1S - 10m
Ex 14 WR 2Ö - 2m
Ex 14 WR 2Ö - 5m
Ex 14 WR 2Ö - 10m

Material no.

1158753
1045393
1045388
on request
1460982
1402072

ExM 14 WR - 2m
ExM 14 WR - 5m
ExM 14 WR - 10m
ExM 14 WR 1Ö/1S - 2m
ExM 14 WR 1Ö/1S - 5m
ExM 14 WR 1Ö/1S - 10m

1187093
1179278
on request
1189205
1179495
1185021



Ex position switch Ex 14 / ExM 14

Ordering details



Roller plunger for front mounting
FR

* with safety function

Type

Ex 14 FR 1Ö/1S - 2m
Ex 14 FR 1Ö/1S - 5m
Ex 14 FR 1Ö/1S - 10m
Ex 14 FR 2Ö - 2m
Ex 14 FR 2Ö - 5m
Ex 14 FR 2Ö - 10m

Material no.

1181781
1045447
on request
on request
on request
on request

ExM 14 FR - 2m

1175492

ExM 14 FR - 5m

1178551

ExM 14 FR - 10m

1187307

ExM 14 FR 1Ö/1S - 2m

1189206

ExM 14 FR 1Ö/1S - 5m

1189207

ExM 14 FR 1Ö/1S - 10m

on request



Vertical roller plunger VR

* with safety function

Type

Ex 14 VR 1Ö/1S - 2m
Ex 14 VR 1Ö/1S - 5m
Ex 14 VR 1Ö/1S - 10m
Ex 14 VR 1Ö/1S - 10m / -40°C
Ex 14 VR 2Ö - 2m
Ex 14 VR 2Ö - 5m
Ex 14 VR 2Ö - 10m

Material no.

1189141
1189192
1188039
1374827
on request
1184475
1186147

ExM 14 VR - 2m

1189102

ExM 14 VR - 5m

1189103

ExM 14 VR - 10m

on request

ExM 14 VR 1Ö/1S - 2m

1189208

ExM 14 VR 1Ö/1S - 5m

1181774

ExM 14 VR 1Ö/1S - 10m

1186817



Parallel roller lever with collar
WPH

Type

Ex 14 WPH 2Ö - 5m / -40°C

Material no.

1455843

ExM 14 WPH 1Ö/1S - 5m / -40°C

1338176



Ex position switch Ex 14 / ExM 14

Ordering details



Rocking lever D

* with safety function

Type

Ex 14 D 1Ö/1S - 2m
Ex 14 D 1Ö/1S - 5m
Ex 14 D 1Ö/1S - 5m / -40°C
Ex 14 D 1Ö/1S - 10m
Ex 14 D 1Ö/1S - 10m / -40°C
Ex 14 D 2Ö - 2m
Ex 14 D 2Ö - 5m
Ex 14 D 2Ö - 10m

Material no.

1164918
1175455
1473270
1045410
1473690
on request
on request
1475802

ExM 14 D - 2m
ExM 14 D - 5m
ExM 14 D - 10m
ExM 14 D 1Ö/1S - 2m
ExM 14 D 1Ö/1S - 5m
ExM 14 D 1Ö/1S - 10m

1173987
1169551
on request
1176310
1179433
1181308



Long rocking lever DL

* with safety function

Type

Ex 14 DL 1Ö/1S - 2m
Ex 14 DL 1Ö/1S - 5m
Ex 14 DL 1Ö/1S - 10m
Ex 14 DL 2Ö - 2m
Ex 14 DL 2Ö - 5m
Ex 14 DL 2Ö - 10m

Material no.

1160793
1181410
1181362
on request
1188115
on request

ExM 14 DL - 2m
ExM 14 DL - 5m
ExM 14 DL - 10m
ExM 14 DL 1Ö/1S - 2m
ExM 14 DL 1Ö/1S - 5m
ExM 14 DL 1Ö/1S - 10m

1189104
1184350
on request
1189209
1184769
on request



Adjustable rocking lever DS

Type

Ex 14 DS 1Ö/1S - 2m
Ex 14 DS 1Ö/1S - 5m
Ex 14 DS 1Ö/1S - 5m / -40°C
Ex 14 DS 1Ö/1S - 10m
Ex 14 DS 2Ö - 2m
Ex 14 DS 2Ö - 5m
Ex 14 DS 2Ö - 10m

Material no.

1179731
1045423
1300760
1181949
on request
1365817
on request

ExM 14 DS - 2m
ExM 14 DS - 5m
ExM 14 DS - 10m
ExM 14 DS 1Ö/1S - 2m
ExM 14 DS 1Ö/1S - 5m
ExM 14 DS 1Ö/1S - 10m

1189105
1169764
1182306
1189212
1189223
on request



Ex position switch Ex 14 / ExM 14

Ordering details



Long spring rod TL

Type	Material no.
Ex 14 TL 1Ö/1S - 2m	1189193
Ex 14 TL 1Ö/1S - 5m	1189194
Ex 14 TL 1Ö/1S - 10m	on request
Ex 14 TL 2Ö - 2m	on request
Ex 14 TL 2Ö - 5m	on request
Ex 14 TL 2Ö - 10m	on request
ExM 14 TL - 2m	1189107
ExM 14 TL - 5m	1182414
ExM 14 TL - 10m	1182302
ExM 14 TL 1Ö/1S - 2m	1186536
ExM 14 TL 1Ö/1S - 5m	1189243
ExM 14 TL 1Ö/1S - 10m	on request



Spring rod with steel tip TF

Type	Material no.
Ex 14 TF 1Ö/1S - 2m	1189195
Ex 14 TF 1Ö/1S - 5m	1175893
Ex 14 TF 1Ö/1S - 10m	1175894
Ex 14 TF 2Ö - 2m	on request
Ex 14 TF 2Ö - 5m	on request
Ex 14 TF 2Ö - 10m	on request
ExM 14 TF - 2m	1189137
ExM 14 TF - 5m	1158676
ExM 14 TF - 10m	on request
ExM 14 TF 1Ö/1S - 2m	1189244
ExM 14 TF 1Ö/1S - 5m	1189245
ExM 14 TF 1Ö/1S - 10m	1188038



Spring rod with plastic tip TK

Type	Material no.
Ex 14 TK 1Ö/1S - 2m	1189196
Ex 14 TK 1Ö/1S - 2m / -40°C	1482086
Ex 14 TK 1Ö/1S - 5m	1189197
Ex 14 TK 1Ö/1S - 10m	on request
Ex 14 TK 2Ö - 2m	on request
Ex 14 TK 2Ö - 5m	on request
Ex 14 TK 2Ö - 10m	on request
ExM 14 TK - 2m	1189138
ExM 14 TK - 5m	1158841
ExM 14 TK - 10m	1052340
ExM 14 TK 1Ö/1S - 2m	1176333
ExM 14 TK 1Ö/1S - 5m	1189246
ExM 14 TK 1Ö/1S - 10m	on request



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Accessories



Cable entry on side S 8039

Type
Cable entry on side S

Material no.
on request