

EX-Z4K 235-11Z-3D



- Metal enclosure
- 30 mm x 63,5 mm x 30 mm
- 1 Cable entry 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°
- Snap action with constant contact pressure up to switching point
- Actuation from bottom parallel to the switch, therefore only suitable for small housings.

Data

Ordering data

EX-Z4K 235-11z-3D
103001802

Approval - Standards

IMMETRO

Explosion protection

EN 60079-15
EN 60079-31
IEC 60079-0
22
2
3D
3G
⊕ II 3G Ex nC IIC T5 Gc X
⊕ II 3D Ex tc IIIC T90°C Dc X

Manufacturer declaration

ATEX Zone 2 and 22

General data

Product name	EX-Z 235 angle roller lever 4K EN 60947-5-1 BG-GS-ET-15
Housing construction form	Norm construction design
Enclosure material	Zink
Enclosure coating material	painted
Material of the contacts, electrical	Silver

General data - Features

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

Safety appraisal

	ISO 13849-1
Mission Time	20 Year(s)

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	20,000,000 Operations
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Mechanical data

Actuating element	Angle roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating force, minimum	6 N
Positive break force, minimum	16 N
Actuating speed, minimum	44 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis

Mechanical data - Connection technique

Terminal Connector	Screw connection
Cable cross-section of the cable glands, minimum	6 mm
Cable cross-section of the cable glands, maximum	12 mm
	0.75 mm ²
	2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Wire cross-section	13 AWG

Mechanical data - Dimensions

Height of sensor	107 mm
Length of sensor	30 mm
Width of sensor	42 mm

Ambient conditions

	IP67
Ambient temperature, minimum	-20 °C
Ambient temperature, maximum	+60 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
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Electrical data

Thermal test current	10 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	Snap switch element
Bounce duration, maximum	3 ms
Switching frequency	5,000 /h
Switchover time, maximum	5.5 ms

Ordering code

Product type description:

EX-(1)(2) 235-(3)Z-(4)-(5)-(6)-(7)-
3D

(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

(3)

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)

(4)

H Slow action with staggered contacts
UE Slow action with overlapping contacts

(5)

1297 Enclosure with transverse slotted holes

(6)

2138 Roller lever 7H for position switches with safety function

(7)

1637 Gold-plated contacts

Pictures

Photo/Product/Catalogue



ID: k235kf03

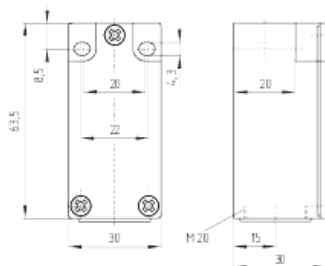
| 385,4 kB | .jpg | 156.633 x 312.914 mm - 444 x 887

Pixel - 72 dpi

| 104,7 kB | .png | 74.083 x 147.814 mm - 210 x 419

Pixel - 72 dpi

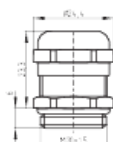
Dimension/Product/Basic



ID: k-235g01

| 111,2 kB | .jpg | 352.778 x 293.511 mm - 1000 x 832 Pixel - 72 dpi
 | 24,5 kB | .cdr |
 | 3,6 kB | .png | 74.083 x 61.736 mm - 210 x 175 Pixel - 72 dpi

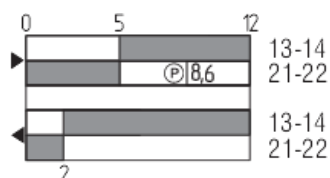
Dimension/Product/Basic



ID: 1xzm1g07

| 2,5 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi
 | 46,3 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi

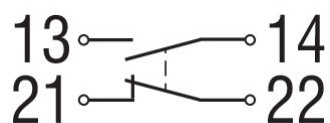
Diagramm/Product/Travel



ID: kk235s12

| 26,3 kB | .cdr |
 | 68,0 kB | .jpg | 352.778 x 187.325 mm - 1000 x 531 Pixel - 72 dpi
 | 2,4 kB | .png | 74.083 x 39.158 mm - 210 x 111 Pixel - 72 dpi

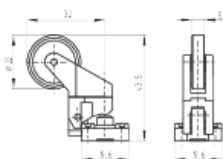
Graphic/Product/Contact



ID: k1o1sk01

| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 Pixel - 72 dpi

Dimension/Product/Actuator



ID: 1k236g03

| 4,0 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi
 | 80,8 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 Pixel - 72 dpi
 | 62,9 kB | .cdr |

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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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