SCHMERSAL
THE DNA OF SAFETY

EX-ZV10H 235-11Z-3D



- **Metal enclosure**
- **30 mm x 63,5 mm x 30 mm**
- **1 Cable entry M 20 x 1.5**
- **only for positioning tasks**
- **Mounting details to EN 50047**
- **Wide range of alternative actuators**
- **Lever angle adjustable in 10° steps**
- **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**

Data

Ordering data	
	EX-ZV10H 235-11Z-3D
	101189578
EAN (European Article Number)	4030661347271
eCl@ss number, Version 9.0	27-27-26-01
Approval - Standards	
	IMMETRO
Explosion protection	
	EN 60079-15 EN 60079-31 IEC 60079-0 22 2 3D 3G Ex II 3G Ex nC IIC T5 Gc X Ex II 3D Ex tc IIIC T90°C Dc X
Manufacturer declaration	ATEX Zone 2 and 22

General data	
Product name	EX-Z 235 rod lever 10H
	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
Lever material	Metal film
Material of the rod	Plastic
Gross weight	280 g
General data - Features	
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
Mechanical data	
Actuating element	Rod lever
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	687 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
Actuating torque, minimum	0.2 Nm
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 mm²
	2.5 mm²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Wire cross-section	13 AWG

Mechanical data - Dimensions	
Length x Width x Height	Height of sensor: 98.5 mm (without rod)
Length of sensor	43.5 mm
Width of sensor	30 mm
Ambient conditions	
	IP67
Ambient temperature, minimum	-20 °C
Ambient temperature, maximum	+60 °C
Ambient conditions - Insulation value	
Rated impulse withstand voltage	6 kV
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

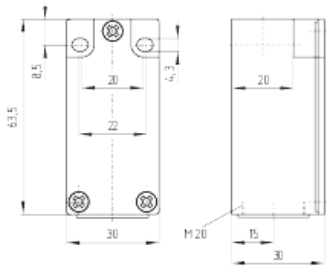
Photo/Product/Catalogue



ID: k235hf03

| 415,3 kB | .jpg | 110.419 x 416.983 mm - 313 x 1182 Pixel - 72 dpi
| 236,5 kB | .png | 74.083 x 279.753 mm - 210 x 793 Pixel - 72 dpi

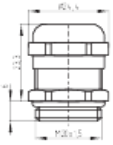
Dimension/Product/Basic



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

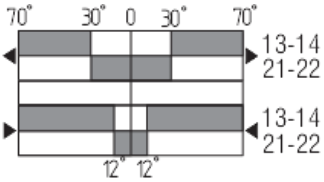
Dimension/Product/Basic



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

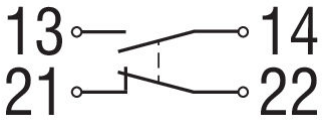
Diagramm/Product/Travel



ID: kh235s14

| 20,1 kB | .cdr |
| 82,2 kB | .jpg | 352.778 x 191.911 mm - 1000 x 544 Pixel - 72 dpi
| 2,4 kB | .png | 74.083 x 40.217 mm - 210 x 114 Pixel - 72 dpi

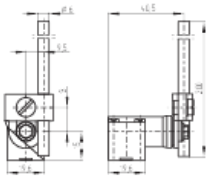
Graphic/Product/Contact



ID: k1o1sk01

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

Dimension/Product/Actuator



ID: 1h236g03

| 72,1 kB | .cdr |
| 3,9 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi
| 83,4 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 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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