

EX-ZV7H 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-ZV7H 235-11Z-3D

101206016

EAN (European Article Number)

4030661371443

eCl@ss number, Version 9.0

27-27-06-01

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 roller lever 7H 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
Roller material	Plastic
Gross weight	269 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
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Mechanical data

Actuating element	Roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating speed, minimum	240 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 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	160.5 mm
Length of sensor	49 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
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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: k235hf02

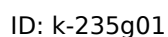
| 443,4 kB | .jpg | 103.364 x 395.817 mm - 293 x 1122

Pixel - 72 dpi

| 299,1 kB | .png | 74.083 x 283.633 mm - 210 x 804

Pixel - 72 dpi

Dimension/Product/Basic



| 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

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

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

ID: k1o1sk01

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

The technical drawing shows two views of a mechanical component. The top view (front) is circular with a diameter of 28 mm. It features a central hole with a diameter of 6 mm and two smaller holes on either side, each with a diameter of 5 mm. The bottom view (side) shows the profile of the component, which has a total height of 66.5 mm. A section line A-A is indicated, passing through the center of the component.

ID: 1h236g06

| 102,2 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 Pixel - 72 dpi

| 9,7 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi

| 30,0 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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