



EX-T1R 235-02Z-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°

Data

Ordering data

EX-T1R 235-02z-3D

101213411

EAN (European Article Number)

4030661396156

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-T 235 offset roller lever 1r

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
Gross weight	210 g

General data - Features

Safety functions	Yes
Number of auxiliary contacts	0
Number of safety contacts	2

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	Offset roller lever
Mechanical life, minimum	20,000,000 Operations
Actuating force, minimum	9 N
Positive break force, minimum	19 N
Actuating speed, minimum	160 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with actuating angle 30° to switch axis
Note Bounce duration	Bounce duration in accordance with actuating speed
Note (Switchover time)	Switchover time in accordance with actuating speed

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	91.5 mm
Length of sensor	30 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	Opener (NC)
Switching principle	Creep circuit element
Switching frequency	5,000 /h

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: k235rf03

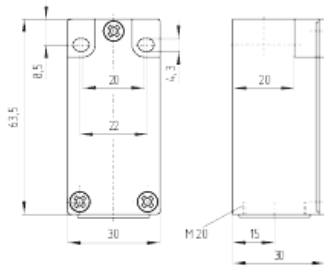
| 147,8 kB | .png | 74.083 x 184.15 mm - 210 x 522

Pixel - 72 dpi

| 262,0 kB | .jpg | 106.539 x 264.936 mm - 302 x 751

Pixel - 72 dpi

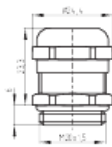
Dimension/Product/Basic



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

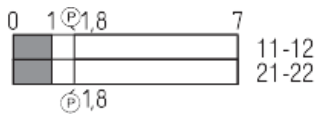
Dimension/Product/Basic



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

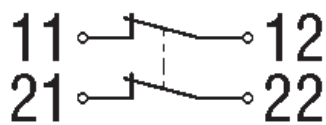
Diagramm/Product/Travel



ID: kr235s03

| 41,8 kB | .jpg | 352.778 x 117.475 mm - 1000 x 333 Pixel - 72 dpi
 | 25,1 kB | .cdr |
 | 1,7 kB | .png | 74.083 x 24.694 mm - 210 x 70 Pixel - 72 dpi

Graphic/Product/Contact

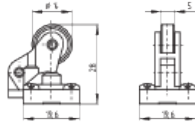


ID: k2o--k01

| 48,8 kB | .jpg | 352.778 x 125.236 mm - 1000 x 355 Pixel - 72 dpi
 | 1,4 kB | .png | 74.083 x 26.458 mm - 210 x 75 Pixel - 72 dpi

Dimension/Product/Actuator

ID: 1r236g03



| 111,6 kB | .cdr |
| 6,5 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel
- 72 dpi
| 63,9 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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