



ZK235-11Z-M20

- 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

Data

Ordering data

| | |
|-------------------------------|---------------|
| Product type description | ZK 235-11Z |
| Article number (order number) | 101164307 |
| EAN (European Article Number) | 4030661205458 |
| eCl@ss number, Version 9.0 | 27-27-26-01 |

Certifications

| | |
|--------------|---------------------|
| Certificates | cULus CCC EAC |
|--------------|---------------------|

General data

| | |
|--------------------------------------|---|
| Product name | Z 235 offset roller lever K |
| Standards | IEC 60947-5-1 ISO 13849-1 BG-GS-ET-15 |
| Housing construction form | Norm construction design |
| Actuator type to DIN EN 50047 | E |
| Enclosure material | Zink |
| Enclosure coating material | painted |
| Material of the contacts, electrical | Silver |
| Weight | 155 g |

General data - Features

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

Safety appraisal

| | |
|--------------|-------------|
| Standards | 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 | Offset roller lever |
| Mechanical life, minimum | 20,000,000 Operations |
| Actuating force, minimum | 9 N |
| Positive break force, minimum | 19 N |
| Actuating speed, minimum | 24 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 section, minimum | 0.75 mm ² |
| Cable section, maximum | 2.5 mm ² |
| Note (Cable section) | All indications about the cable section are including the conductor ferrules. |

Mechanical data - Dimensions

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|------------------|---------|
| Height of sensor | 95.1 mm |
| Length of sensor | 30 mm |
| Width of sensor | 30 mm |

Ambient conditions

| | |
|------------------------------|--------|
| Protection class | IP67 |
| Ambient temperature, minimum | -30 °C |
| Ambient temperature, maximum | +80 °C |

Ambient conditions - Insulation value

| | |
|---------------------------------|------|
| Rated impulse withstand voltage | 6 kV |
|---------------------------------|------|

Electrical data

| | |
|--|------------------------|
| Thermal test current | 10 A |
| Required rated short-circuit current to EN 60947-5-1 | 1,000 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, minimum | 5.5 ms |

Documents**Operating instructions and Declaration of conformity****EC Declaration of conformity****UL Certificate****CCC certification**

EAC certification

SISTEMA-VDMA library

Pictures

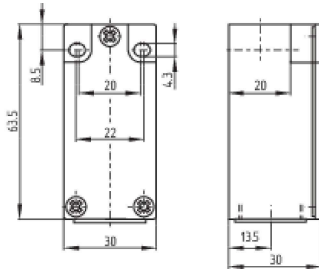
Product picture (catalogue individual photo)



ID: k235kf01

| 342,4 kB | .jpg | 113.594 x 282.575 mm - 322 x 801 Pixel - 72 dpi
 | 3,4 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 Pixel - 72 dpi
 | 336,1 kB | .jpg | 112.889 x 280.811 mm - 320 x 796 Pixel - 72 dpi
 | 187,1 kB | .png | 74.083 x 184.15 mm - 210 x 522 Pixel - 72 dpi

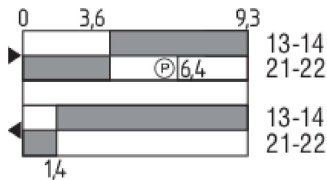
Dimensional drawing basic component



ID: 1-235g01

| 24,6 kB | .cdr |
 | 4,0 kB | .png | 74.083 x 61.383 mm - 210 x 174 Pixel - 72 dpi
 | 28,5 kB | .jpg | 112.889 x 93.839 mm - 320 x 266 Pixel - 72 dpi
 | 3,6 kB | .jpg | 35.278 x 35.278 mm - 100 x 100 Pixel - 72 dpi
 | 114,7 kB | .jpg | 352.778 x 293.158 mm - 1000 x 831 Pixel - 72 dpi

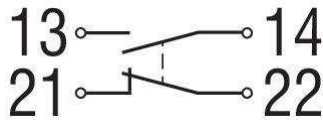
Switch travel diagram



ID: kk235s18

| 2,5 kB | .png | 74.083 x 39.864 mm - 210 x 113 Pixel - 72 dpi
 | 27,5 kB | .cdr |
 | 22,1 kB | .jpg | 112.889 x 61.031 mm - 320 x 173 Pixel - 72 dpi

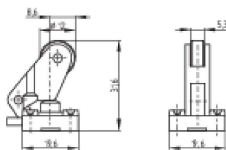
Diagram



ID: k1o1sk01

| 18,4 kB | .jpg | 112.889 x 45.861 mm - 320 x 130 Pixel - 72 dpi

Dimensional drawing actuator



ID: 1k236g01

| 3,6 kB | .png | 74.083 x 51.506 mm - 210 x 146 Pixel - 72 dpi
 | 60,3 kB | .cdr |
 | 67,4 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 Pixel - 72 dpi

System components

PS215 offset roller lever K200

103014958 PS215-Z11-K200



- Metal enclosure
- Design to EN 50047
- Quick connection technology as connection terminals rotated by 45°
- Simple and quick to adjust the control elements by 45°.
- cable entry 1 x M20 x 1,5

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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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