DATASHEET



Data

Ordering data

PM_TYPE_NAME	Z3K 235-11Z-M20
PM_ORDER_NUMBER	151165850
CODE_ECLASS_V12P0	27-27-26-01
CODE_ECLASS_V11P0	27-27-26-01
CODE_ECLASS_V09P0	27-27-26-01
CODE_ETIM_V07P0	EC000030
CODE_ETIM_V06P0	EC000030

Approvals - Standards

PNV_NORM_CERTIFICATION	cULus CCC

General data

NORM_STANDARD	BG-GS-ET-15 EN ISO 13849-1 EN IEC 60947-5-1
DESIGN_HOUSING	Norm construction design
MAT_HOUSING	Metal, zinc die-cast

SAP_WEIGHT_GROSS	154

General data - Features

YN_FIT_FOR_SAFE_FUNC	Yes
NUM_OF_CONT_SUB	1
NUM_OF_SAFE_CONT	1

Safety classification

SAFE_NORM_STANDARD	EN ISO 13849-1
SAFE_MISSION_TIME	20

Safety classification - Safety outputs

SAFE_B10D_NC_SOUT	20,000,000

Mechanical data

DESIGN_ACT_ELEMENT	Angle roller lever
DESIGN_MECH_LIFETIME_SWITCH_MIN	20,000,000
FORCE_ACT_MIN	9
FORCE_POSITIVE_BREAK_MIN	19
MOTION_ACT_SPEED_MIN	27
MOTION_ACT_SPEED_MAX	1
NOTE_MOTION_ACT_SPEED	Actuating speed with actuating angle 30° to switch axis

Mechanical data - Connection technique

REVIEW_ELEC_WIRING_GENERAL	Screw terminals M20 x 1.5
ELEC_CABLE_SECTION_MIN	0.75 mm²
ELEC_CABLE_SECTION_MAX	2.5 mm²
NOTE_ELEC_CABLE_SECTION	All indications including the conductor ferrules.

Mechanical data - Dimensions

DIM_LENGTH_SENSOR	30
DIM_WIDTH_SENSOR	35
DIM_HEIGHT_SENSOR	93.5

Ambient conditions

DESIGN_IP_CLASS_GENERAL	IP65 IP67
TEMP_AMB_GPV	-30 ... +80 °C

Ambient conditions - Insulation values

VOLT_RATED_INSULAT	500 V
VOLT_RATED_IMPULSE_WITHSTAND	6

Electrical data

CURR_THERMAL_CONTINUOUS	10
CURR_REQUIRED_RATED_SHORT_CIRCUIT	1,000
VOLT_UTILISAT_CAT_AC15	230
CURR_UTILISAT_CAT_AC15	4
VOLT_UTILISAT_CAT_DC13	24
CURR_UTILISAT_CAT_DC13	1
REVIEW_DESIGN_SWITCH_ELEMENT	NO contact, NC contact
DESIGN_SWITCH	Snap action
TIME_BOUNCE_DURAT_MAX	3
TIME_FREQ_OF_OPERAT_MAX	5,000
TIME_SWITCHOVER_MIN	5.5
MAT_CONT_ELEC	Silver

Ordering code

Product type description:
(1)(2) 2(3)5-(4)Z(5)-(6)-(7)-(8)-(9)

(1)

Z	Snap action
T	Slow action (not 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
AF	Spring rod lever AF
RMS	Brass roller

(3)

3	slim design
55	large design

(4)

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)

(5)

H	Slow action with staggered contacts
UE	Slow action with overlapping contacts
Z	additional seal between attachment and housing

(6)

M16	cable entry M16
without	Cable entry M20
ID	Cut clamps
NPT	Cable entry NPT 1/2"
ST	M12 connector with A-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)
ST-2310	M12 connector with B-coding (Caution! According to EN 60204-1, the versions with connector must only be used in PELV circuits.)

(7)

2574	Enclosure with L-shaped mounting holes (horizontally or vertically adjustable)

(8)

2138	Roller lever 7H for position switches with safety function

(9)

1637	Gold-plated contacts

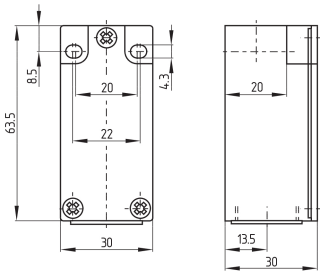
Pictures

Product picture (catalogue individual photo)



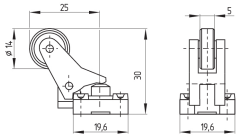
ID: k235kf02
| 657,7 kB | .jpg | 352.778 x 685.094 mm - 1000 x 1942 px - 72 dpi
| 67,8 kB | .png | 74.083 x 143.933 mm - 210 x 408 px - 72 dpi
| 33,0 kB | .jpg | 63.5 x 123.472 mm - 180 x 350 px - 72 dpi

Dimensional drawing basic component



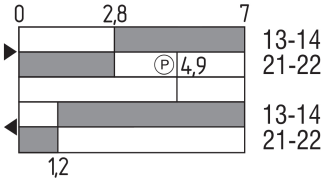
ID: 1-235g01
| 4,0 kB | .png | 74.083 x 61.383 mm - 210 x 174 px - 72 dpi
| 114,7 kB | .jpg | 352.778 x 293.158 mm - 1000 x 831 px - 72 dpi

Dimensional drawing actuator



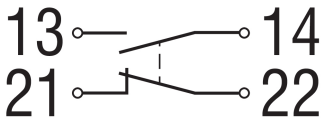
ID: 1k236g02
| 60,7 kB | .cdr |
| 3,6 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi
| 68,1 kB | .jpg | 352.778 x 245.886 mm - 1000 x 697 px - 72 dpi

Switch travel diagram



ID: kk235s05
| 26,1 kB | .cdr |
| 2,4 kB | .png | 74.083 x 40.217 mm - 210 x 114 px - 72 dpi
| 71,4 kB | .jpg | 352.778 x 191.206 mm - 1000 x 542 px - 72 dpi

Diagram



ID: k1o1sk01
| 52,2 kB | .jpg | 352.778 x 143.581 mm - 1000 x 407 px - 72 dpi
| 2,6 kB | .png | 74.083 x 29.986 mm - 210 x 85 px - 72 dpi

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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