

Plastic bodied limit switch

Series IN62

Description IN62-SU1Z SK KV1	Article number 6183000239
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Operating symbol

(1) 13 — 14 (2)
 (3) 21 — 22 (4)

Fixed positioning with e.g. fixing screw M5 according to the standard DIN EN ISO 4762.

Operating diagram

[mm] 0 1,3 2,8 5,0 5,9 [N] 7,5 6,5
 ON OFF
 Tolerance:
 Operating point $\pm 0,25$ mm;
 Direct opening action $+ 0,25$ mm
 Operating force ± 10 %

Electrical Data		
Rated insulation voltage	U_i	400 V
Rated impulse withstand voltage	U_{imp}	4 kV
Rated operational voltage	U_e	240 V AC / 24 V DC
Rated supply frequency AC		50 / 60 Hz
Overvoltage category		II acc. EN 60947-1 annex H table H1
Conv. thermal current	I_{the}	5 A
Minimum current		1 mA
Utilization category		AC 15, U_e/I_e 240 V / 3 A DC 13, U_e/I_e 24 V / 4 A (B300 table A.1)
Direct opening action		acc. IEC/EN 60947-5-1, annex K; direct opening force: 18 N
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit current		400 A
Max. contact resistance		25 mOhm (unused)

Mechanical data	
Enclosure	Thermoplastic, glass fibre reinforced (UL 94-V0)
Cover	Thermoplastic, glass fibre reinforced (UL 94-V0)
Actuator	Plunger (Thermoplastic (UL 94-HB))
Actuating force	F_B 10 N $\leq F_B \leq$ 30 N
Operating temperature	-30 °C ... +75 °C
Storage temperature	-40 °C ... +80 °C
Protection type	IP67 acc. EN 60529
Pollution degree (built-in switch)	3
Contact material	silver
Device Class (built-in switch)	Category E (MC3+CC2+SC1) acc. EN 60947-1 annex Q
Contact type	1 N.C. (Form Zb), 1 N.O.
Operating rate	V 0,06 m/min $\leq V \leq$ 30 m/min
Bounce duration	ms < 3 ms
Switchover time	ms < 8 ms
Switching frequency	\leq 60 / min.
Mechanical life	10 x 10 ⁶ operating cycles
Mission time	\leq 20 years
Connection	Cable 4 x 0,5 mm ² x 1000 mm \pm 10 %, Halogen-free control cable, grey (Lapp cable-no.: 1123004)
Weight	\approx 0,95 kg
Installation position	operator definable

Actuation
The push bolt actuator is mainly intended to be actuated along its axis.

ID for safety engineering
B10d N.C. 20 x 10 ⁶ cycles
B10d N.O. 1 x 10 ⁶ cycles

Standards
VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1
UL 508 / CSA C22.2 No.14
DIN EN ISO 13849-1
EN81-20
EN81-50

EU Conformity
acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

Approvals
DGUV (AC 15, U _e /I _e 240 V / 1,5 A; DC 13, U _e /I _e 24 V / 1,5 A)
CCC (AC 15, U _e /I _e 240 V / 1,5 A; DC 13, U _e /I _e 24 V / 1,5 A)
TÜV Süd (AC 15, U _e /I _e 240 V / 1,5 A; DC 13, U _e /I _e 24 V / 1,5 A)
cCSA _{US} B300, 240Vac 1.5A G.P., 24Vdc 1.5A R. Enclosure Type 4X

Notes

The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable.