

# Plastic bodied limit switch

## Series IN62

Description **IN62-E2 RKL M12**

Article number **6183000322**

**Operating symbol**

(1) 13 14 (2)

(3) 23 24 (4)

**Operating diagram**

ON OFF Tolerance:  
Operating point ± 0,25 mm;  
Direct opening action + 0,25 mm

**Plug**

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

m/s	0,1	0,5	1	2	5
A	20°	20°	10°	5°	-
B	20°	20°	10°	5°	-

Electrical Data		
Rated insulation voltage	$U_i$	250 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 / 1,5 A (B300 table A.1)
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		Roller (thermoplastic)
Actuating force	$F_B$	$10\text{ N} \leq F_B \leq 30\text{ N}$
Operating temperature		$-30\text{ °C} \dots +75\text{ °C}$
Storage temperature		$-40\text{ °C} \dots +80\text{ °C}$
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		2 N.O. (Form Zb)
Operating rate	$V$	$0,06\text{ m/min} \leq V \leq 30\text{ m/min}$
Bounce duration	ms	The value depends on the operating rate.
Switchover time	ms	The value depends on the operating rate.
Switching frequency		$\leq 60 / \text{min.}$
Mechanical life		$10 \times 10^6$ operating cycles
Mission time		$\leq 20$ years
Connection		Plug M12x1, A-coding
Conductor cross-sections		Solid or Litz wire with ferrules $0,34\text{ mm}^2 - 1,5\text{ mm}^2$ ; AWG 22-16
Cable entrance		$1 \times \text{M}20 \times 1,5$
Weight		$\approx 0,06\text{ kg}$
Installation position		operator definable

Actuation
<p>The actuating device is preferably started from 2 sides.                      By loosening the 4 screws the actuation assembly can be rotated in 90 degree increments such that 4 actuation directions are possible.                      The actuation assembly is to be again fastened to the housing using the 4 screws.</p>

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

EU Conformity
acc. to directive 2014/35/EU (Low-Voltage-Directive)

Approvals
CCC (AC 15, $U_e/I_e$ 240 V / 3 A; DC 13, $U_e/I_e$ 24 V / 1,5 A)
cCSA <sub>US</sub> B300, 240Vac 3A G.P., 24Vdc 1.5A R. Enclosure Type 4X

Notes
<p>The degree of protection specified (IP code) applies only to a properly closed cover and the use of an equivalent connector.                      The connector and the cable (fix or flexible mounted) must at least be suitable for the described ambient air temperatures.                      The connector must not be connected or disconnected when voltage is applied.                      The mechanical life of the connector is 100 connection cycles.                      Suitable connector and cable must be used to meet approval requirements.</p>