

Plastic bodied limit switch

Series IN62

| | |
|------------------------------------|----------------------------------|
| Description IN62-A2Z RKL KV | Article number 6183000270 |
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Operating symbol

Operating diagram

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

Dimensions: $\varnothing 14$, 20, 10, 3.2, 23, 62, 16, 30.3, 31, 21.5, 7.5, 8, 4, $\varnothing 4.2$.

| | | | | | | |
|---|-----|-----|-----|----|---|---|
| | 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 | 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 / 1,5 A (B300 table A.1) |
| Direct opening action | \ominus | acc. IEC/EN 60947-5-1, annex K; direct opening force: 25 N |
| Short-circuit protective device | | Fuse 4 A gG |
| Rated conditional short-circuit current | | 400 A |
| Max. contact resistance | | 25 mOhm (unused) |
| Protection class | \square | II |

| 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.C. (Form Zb) |
| Isolating distance | | 4 mm (2x2 mm) |
| 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 | | 10×10^6 operating cycles |
| Mission time | | ≤ 20 years |
| Connection | | 4 screw connections (M3) |
| 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 x cable gland (RAL 9005) M20 x1,5 (clamping range 5 mm - 10 mm) |
| Weight | | $\approx 0,06\text{ kg}$ |
| Installation position | | operator definable |

| Actuation | |
|---|--|
| 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. | |

| ID for safety engineering | |
|---------------------------|-------------------------|
| B10d N.C. | 20×10^6 cycles |
| B10d N.O. | 1×10^6 cycles |

| 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) |
| | cCSAus B300, 240Vac 3A 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.

PU (tbd), 1 operating and installation manual per PU