

Plastic bodied limit switch

Series IN62

Description **IN62-SU1ZB DGHK WN**

Article number **6183000411**

Operating symbol

The switch must be reset manually via the groove in the plunger.

Operating diagram

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

Legend:
 ■ ON
 □ OFF
 Tolerance:
 Operating point ± 0,55 mm;
 Direct opening action + 0,55 mm
 Operating force ± 10 %

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| | m/s | 0,1 | 0,5 | 1 | 2 | 5 |
| A | | - | - | - | - | - |
| B | | 40° | 40° | 30° | 20° | 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 / 1,5 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) |
| Protection class | □ | II |

| Mechanical data | |
|------------------------------------|---|
| Enclosure | Thermoplastic, glass fibre reinforced (UL 94-V0) |
| Cover | Thermoplastic, glass fibre reinforced (UL 94-V0) |
| Actuator | Lever with roller (Thermoplastic) |
| Actuating force | F_B 5 N $\leq F_B \leq$ 30 N |
| Operating temperature | -30 °C ... +75 °C |
| Storage temperature | -40 °C ... +80 °C |
| Protection type | IP54 acc. to IEC/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. |
| Isolating distance | 4 mm (2x2 mm) |
| 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 | 0,5 x 10 ⁶ operating cycles |
| Mission time | \leq 20 years |
| Connection | 4 screw connections (M3) |
| Conductor cross-sections | Solid or Litz wire with ferrules 0,34 mm ² - 1,5 mm ² ; AWG 22-16 |
| Cable entrance | 1 x self-sealing grommet M20 x 1,5 (tightness-range 8 – 13,5 mm) |
| Weight | \approx 0,06 kg |
| Installation position | operator definable |

| Actuation |
|--|
| The actuating device is preferably started from 1 side. 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. 1 x 10 ⁶ cycles |
| B10d N.O. 1 x 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) |
| cCSA _{US} B300, 240Vac 3A G.P., 24Vdc 1.5A R. Enclosure Type 4X |

Notes

The specified protection classification (IP code) applies only when the cover is closed and the appropriate cable is used, in accordance with the clamping range of the above mentioned self-sealing grommet.

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

The new item replaces the I88 switch 6186171708 (I88-SU1Z DGHW 270GR RO22).