

Plastic bodied limit switch Series IN65

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| Description IN65-SE2 DGHK | Article number 6083000232 |
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Operating symbol

13 14

23 24

Operating diagram

ON
 OFF

Tolerance:
Operating point ± 0,55 mm;
Operating force ± 10 %

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

M20x1,5

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|---|-----|-----|-----|-----|-----|-----|
| | 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 |
| Reliability | | acc. EN 60947-5-4 @ 24 V DC, 10 mA, 1 mA, U_{kd} 2,4 V DC |
| Utilization category | | AC 15, U_e/I_e 240 V / 3 A DC 13, U_e/I_e 24 V / 4 A |
| Short-circuit protective device | | Fuse 4 A gG |
| Rated conditional short-circuit current | | 400 A |
| Max. contact resistance | | 25 mOhm (unused) |
| Electrical life | | on request |

| 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 10 N $\leq F_B \leq$ 30 N |
| Operating temperature | -30 °C ... +75 °C |
| Storage temperature | -40 °C ... +80 °C |
| Protection type | IP66 / 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 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 | 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 M20 x1,5 |
| Weight | \approx 0,08 kg |
| Installation position | operator definable |

| Actuation |
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| The actuating device is preferably started from 1 side. By lifting the clamp the actuation assembly can be rotated in 45° increments such that 8 actuation directions are possible. The actuation assembly is to be again fastened to the housing by lowering the clamp. |

| ID for safety engineering |
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| B10d N.C. 20 x 10 ⁶ cycles (check acc. to DIN EN 60947-5-1) |
| B10d N.O. 1 x 10 ⁶ cycles (contact with reduced power for consumers with resistive load) |

| Standards |
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| VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 |
| VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 |
| VDE 0660 T211, DIN EN 60947-5-4, IEC 60947-5-4 |
| UL 60947-1, CAN/CSA-22.2 No. 60947-1-13 |
| UL 60947-5-1, CAN/CSA-C22.2 No. 60947-5-1-14 |
| DIN EN ISO 13849-1 |
| DIN EN ISO 13849-2 |
| UL 508 |

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

| Approvals | |
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| | 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) |
| | cCSA _{US} B300, 240Vac 1.5A G.P., 24Vdc 1.5A R. Enclosure Type 4X |
| | TÜV |

| Notes | |
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| 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. | |