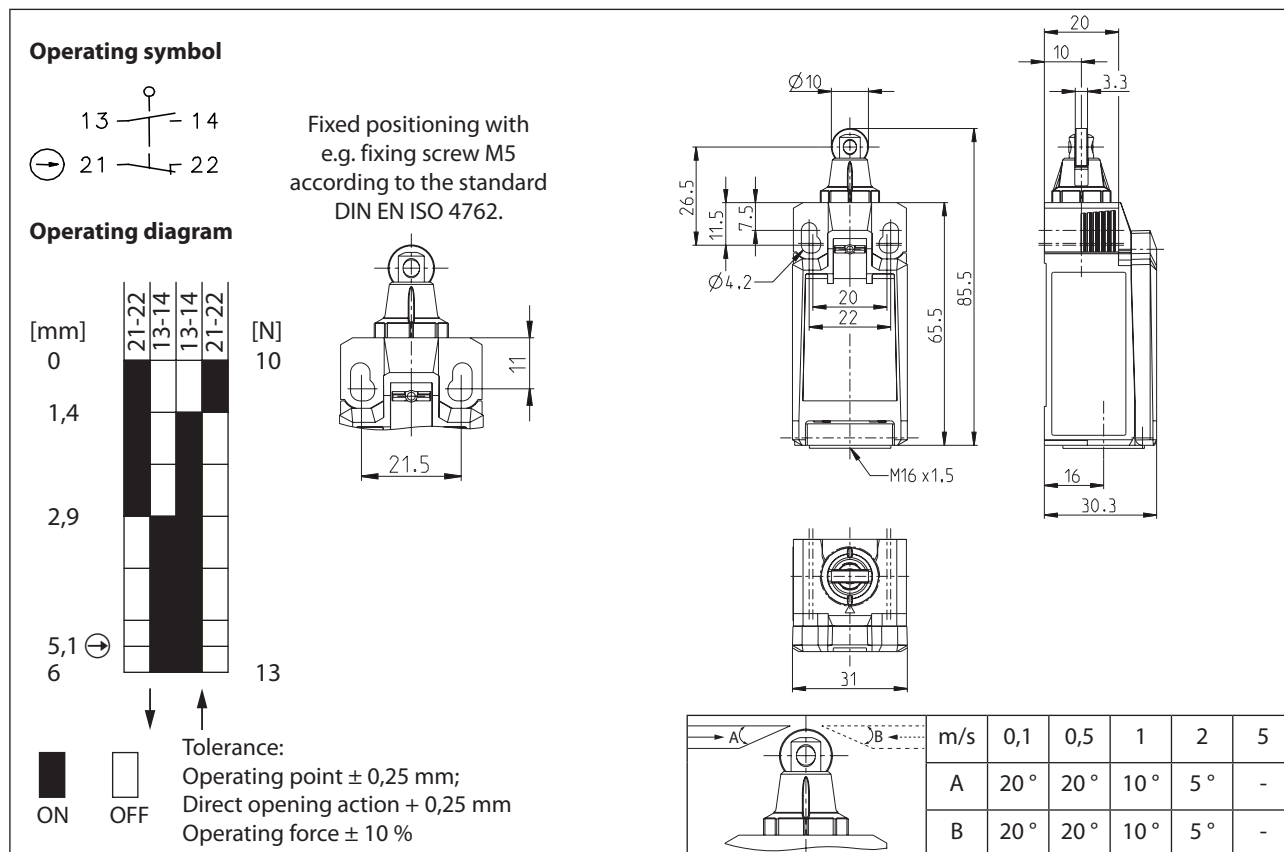


## Plastic bodied limit switch

### Series IN65

Description **IN65-SU1Z RK M16**

Article number **6183000449**


#### 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<br>DC 13, $U_e/I_e$ 24 V / 1,5 A |
| Direct opening action                   |  | acc. IEC/EN 60947-5-1, annex K; direct opening force: 23 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                           |       | 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                    |       | 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                       |       | 1 N.C. (Form Zb), 1 N.O.                                                          |
| Operating rate                     | V     | $0,06\text{ m/min} \leq V \leq 30\text{ m/min}$                                   |
| Bounce duration                    | ms    | $< 3\text{ ms}$                                                                   |
| Switchover time                    | ms    | $< 8\text{ ms}$                                                                   |
| Switching frequency                |       | $\leq 60 / \text{min.}$                                                           |
| Mechanical life                    |       | $15 \times 10^6$ operating cycles                                                 |
| Mission time                       |       | $\leq 20$ years                                                                   |
| Connection                         |       | 4 screw connections (M3)                                                          |
| Conductor cross-sections           |       | Solid or Litz wire with ferrules $0,34\text{ mm}^2 - 1,5\text{ mm}^2$ ; AWG 22-16 |
| Conductor cross-sections           |       | Solid $\leq 1,5\text{ mm}^2$ or Litz wire with ferrules $\leq 1,5\text{ mm}^2$    |
| Cable entrance                     |       | 1 x M16 x1,5                                                                      |
| Weight                             |       | $\approx 0,08\text{ kg}$                                                          |
| Installation position              |       | operator definable                                                                |

| Actuation                                                                                                                                                                                                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>The actuating device is preferably started from 2 sides.</p> <p>By lifting the clamp the actuation assembly can be rotated in <math>45^\circ</math> increments such that 8 actuation directions are possible.</p> <p>The actuation assembly is to be again fastened to the housing by lowering the clamp.</p> |  |

| ID for safety engineering |                         |
|---------------------------|-------------------------|
| B10d N.C.                 | $20 \times 10^6$ cycles |
| B10d N.O.                 | $1 \times 10^6$ 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 2006/42/EC (Safety-of-Machinery-Directive) |

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

| Notes                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>The degree of protection specified (IP code) applies only to a properly closed protective guard and the use of an equivalent cable gland with adequate cable.</p> <p>Packaging unit: 100 pieces</p> |  |