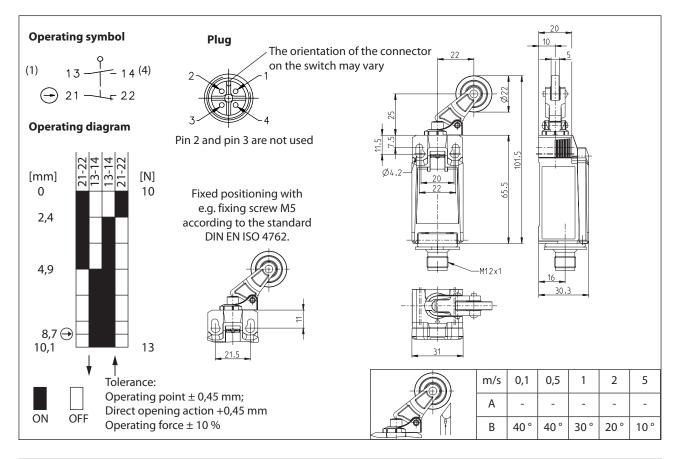


# **Plastic bodied limit switch**

Series IN65

### Description IN65-SU1Z KNK M12

Article number 6083000329



Electrical Data		
Rated insulation voltage	U <sub>i</sub>	250 V
Rated impulse withstand voltage	$U_{imp}$	2,5 kV
Rated operational voltage	U <sub>e</sub>	240 V AC
Rated supply frequency AC		50 / 60 Hz
Overvoltage category		II acc. EN 60947-1 annex H table H1
Conv. thermal current	$I_{the}$	4 A
Minimum current		1 mA
Utilization category		AC 15, U <sub>e</sub> /I <sub>e</sub> 240 V / 3 A
Direct opening action	$\odot$	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 currer	nt	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		Lever with roller (Thermoplastic)
Actuating force	$F_B$	$10 \text{ N} \le F_B \le 30 \text{ N}$
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		1 N.C. (Form Zb), 1 N.O.
Operating rate	V	0,06 m/min ≤ V ≤ 30 m/min
Bounce duration	ms	< 3 ms
Switchover time	ms	< 8 ms
Switching frequency		≤ 60 / min.
Mechanical life		10 x 10 <sup>6</sup> operating cycles
Mission time		≤20 years
Connection		Connector M12x1, A-coded, Pin 1 and Pin 4 are used only
Conductor cross-sections		Solid or Litz wire with ferrules 0,34 mm <sup>2</sup> - 1,5 mm <sup>2</sup> ; AWG 22-16
Cable entrance		1 x M20 x1,5
Weight		≈ 0,08 kg
Installation position		operator definable

#### Actuation

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	
B10d N.C.	20 x 10 <sup>6</sup> cycles
B10d N.O.	1 x 10 <sup>6</sup> cycles

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

<b>EU Conformity</b>	
	acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

## **Technical Data**



Approvals	
	DGUV (AC 15, U <sub>e</sub> /I <sub>e</sub> 240 V / 1,5 A; DC 13, U <sub>e</sub> /I <sub>e</sub> 24 V / 1,5 A)
	CCC (AC 15, U <sub>e</sub> /I <sub>e</sub> 240 V / 1,5 A; DC 13, U <sub>e</sub> /I <sub>e</sub> 24 V / 1,5 A)
	<sub>c</sub> CSA <sub>US</sub> B300, 240Vac 1.5A G.P., 24Vdc 1.5A R. Enclosure Type 4X
	TÜV SÜD (AC 15, Ue/le 240 V / 1,5 A; DC 13, Ue/le 24 V / 1,5 A)

#### Notes

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.

The push bolt actuator is mainly intended to be actuated along its axis.