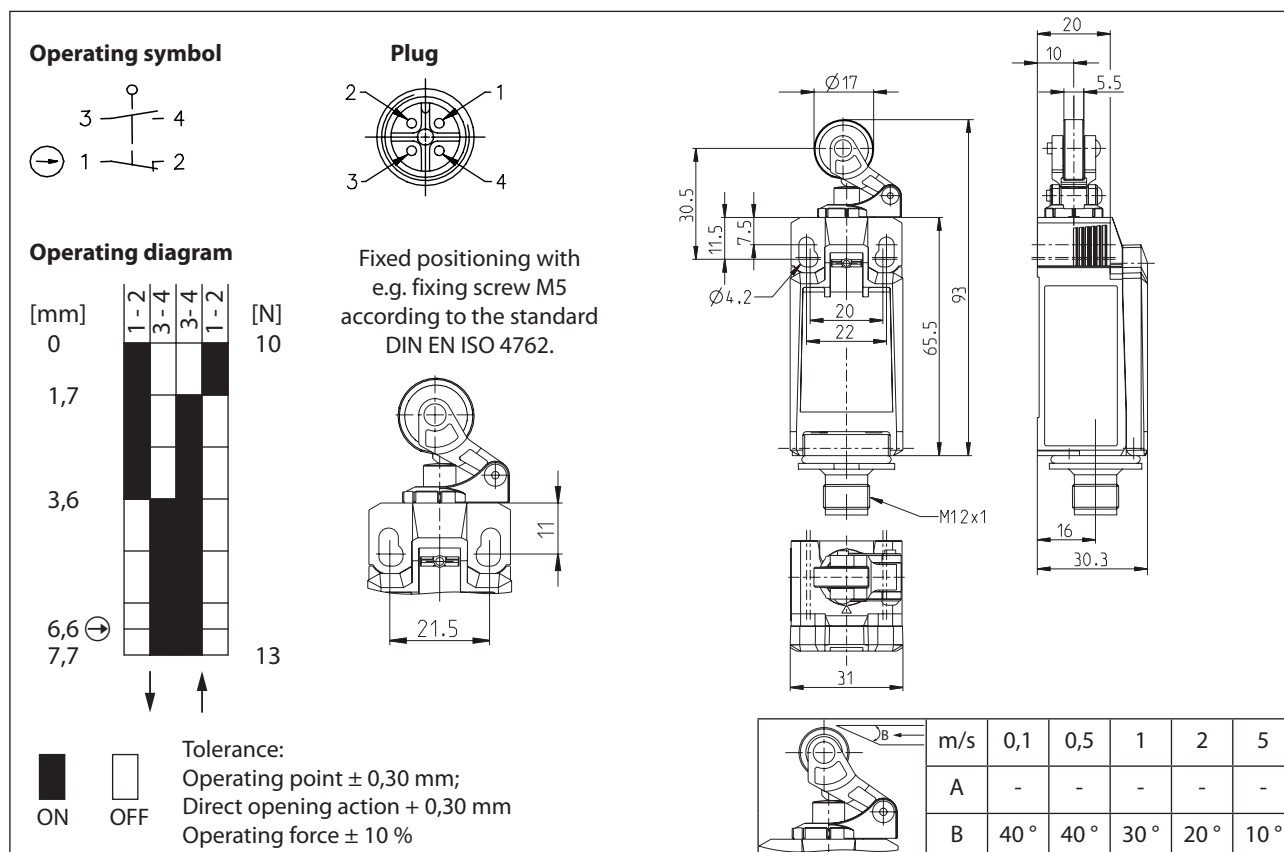




Plastic bodied limit switch

Series IN65

Description **IN65-SU1Z HK M12**

Article number **6183000280**


Electrical Data

Rated insulation voltage	U_i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Rated operational voltage	U_e	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_e/I_e 240 V / 3 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		Lever with 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		10×10^6 operating cycles
Mission time		≤ 20 years
Connection		Connector M12x1, A-coded
Weight		$\approx 0,08\text{ kg}$
Installation position		operator definable

Actuation	
<p>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.</p>	

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 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 _{US} B300, 240Vac 1.5A G.P., 24Vdc 1.5A R.
	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 cover and the use of an equivalent connector.</p> <p>The connector and the cable (fix or flexible mounted) must at least be suitable for the described ambient air temperatures.</p> <p>The connector must not be connected or disconnected when voltage is applied.</p> <p>The mechanical life of the connector is 100 connection cycles.</p> <p>Suitable connector and cable must be used to meet approval requirements.</p>	