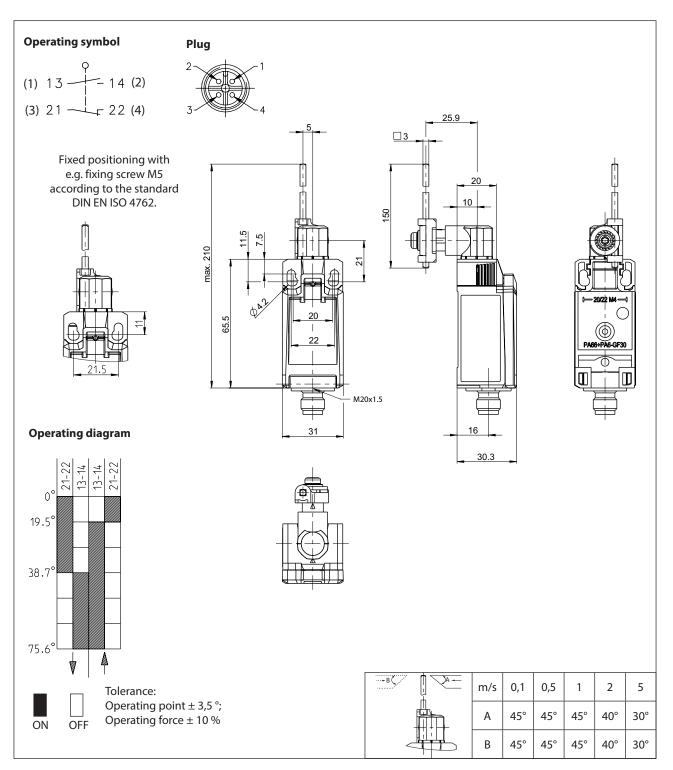


Plastic bodied limit switch

Series IN65

Description IN65-SU1 AHDM M12

Article number 6183000407



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The technical datasheet corresponds to the technical state as of 2022-09-08 and will not be removed in case of changes.

Technical Data



Electrical Data		
Rated insulation voltage	Ui	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
Reliability		1 Mio. 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
Direct opening action	\ominus	acc. IEC/EN 60947-5-1, annex K; direct opening force: 29 N
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit current		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		Metal 🗆 3 mm / lever in 15 ° increments adjustable
Actuating force	F _B	$10 \text{ N} \leq F_B \leq 30 \text{ N}$
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	$0,06 \text{ m/min} \le \text{V} \le 30 \text{ m/min}$
Bounce duration	ms	< 3 ms
Switchover time	ms	< 8 ms
Switching frequency		≤ 60 / min.
Mechanical life		10 x 10 ⁶ operating cycles
Mission time		≤20 years
Connection		Connector M12x1, A-coded
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		≈ 0,09 kg
Installation position		operator definable

Actuation

The actuating device is preferably started from 2 sides.

By lifting the clamp the actuation assembly can be rotated in 45° increments such that 16 actuation directions are possible. The actuation assembly is to be again fastened to the housing by lowering the clamp.

Standards

DIN EN 60947-5-1
UL 508 / CSA C22.2 No.14

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EU Conformity

acc. to directive 2014/35/EU (Low-Voltage-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. Enclosure Type 4X

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.

Suitable connector and cable must be used to meet approval requirements.

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