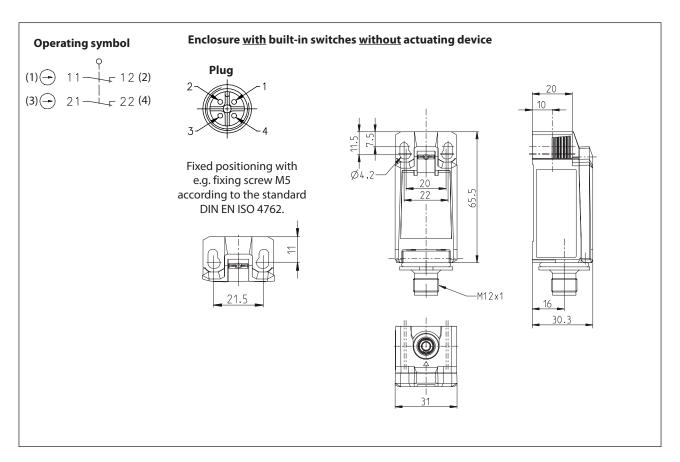


# **Plastic bodied limit switch**

Series IN65-modular system

## Description IN65-A2Z M12

Article number 6083000290



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		ll acc. EN 60947-1 annex H table H1
Conv. thermal current	l <sub>the</sub>	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	$\ominus$	acc. IEC/EN 60947-5-1, annex K; direct opening force: 33 N
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit curre	nt	400 A
Max. contact resistance		25 mOhm (unused)
Protection class		II

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The technical datasheet corresponds to the technical state as of 2025-01-08 and will not be removed in case of changes.

# **Technical Data**



Mechanical data		
Enclosure		Thermoplastic, glass fibre reinforced (UL 94-V0)
Cover		Thermoplastic, glass fibre reinforced (UL 94-V0)
Actuating force	$F_{B}$	$10 \text{ N} \le \text{F}_{\text{B}} \le 30 \text{ N}$
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		2 N.C. (Form Zb)
Isolating distance		4 mm (2x2 mm)
Operating rate	V	$0,06 \text{ m/min} \le \text{V} \le 30 \text{ m/min}$
Bounce duration	ms	The value depends on the operating rate.
Switchover time	ms	The value depends on the operating rate.
Switching frequency		≤ 60 / min.
Mechanical life		30 x 10 <sup>6</sup> operating cycles
Mission time		≤20 years
Connection		Connector M12x1, A-coded
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		≈ 0,06 kg
Installation position		operator definable

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

#### **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)  $_c CSA_{US}$  B300, 240Vac 1.5A G.P., 24Vdc 1.5A R.



#### 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 information on the switching travel can be found in the data sheets of the actuator, as these depend on the actuator used.

Approvals / properties applies only to the fully assembled device.

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