

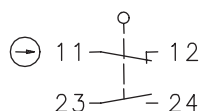
Plastic bodied limit switch

Series IN65

Description **IN65-U1Z AHDB**

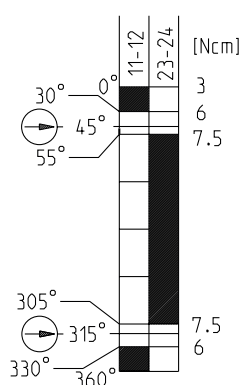
Article number **6083000345**

Operating symbol

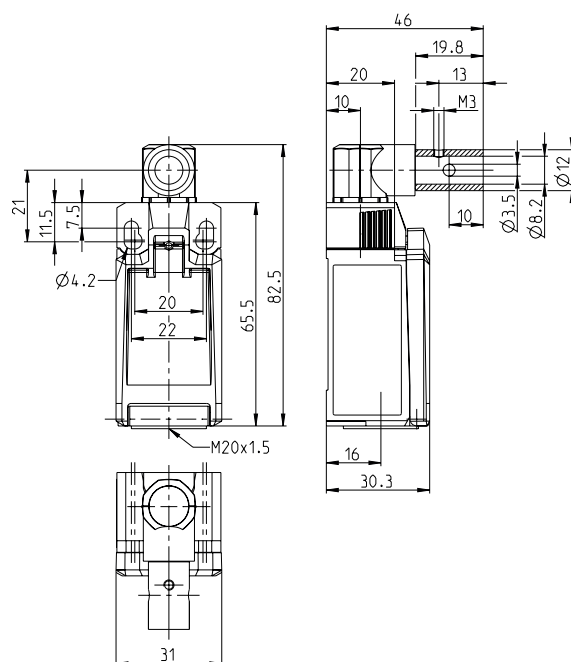
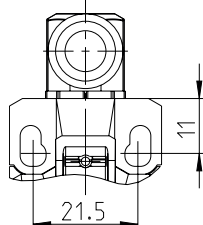


Fixed positioning with
e.g. fixing screw M5
according to the standard
DIN EN ISO 4762.

Operating diagram



 ON
  OFF
 Tolerance:
 Operating point $\pm 3,5^\circ$;
 Direct opening action $+ 3,5^\circ$
 Operating torque ± 2 Ncm



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 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: 22 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		Rotating actuator (metal)
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
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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.
Isolating distance		4 mm (2x2 mm)
Operating rate	V	$0,06\text{ m/min} \leq V \leq 30\text{ m/min}$
Bounce duration	ms	The value depends on the operating rate.
Switchover time	ms	The value depends on the operating rate.
Switching frequency		$\leq 60 / \text{min.}$
Mechanical life		15×10^6 operating cycles
Mission time		≤ 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
Cable entrance		1 x M20 x1,5
Weight		$\approx 0,10\text{ kg}$
Installation position		operator definable

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)

Notes		
The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable.		