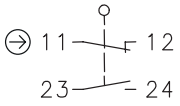
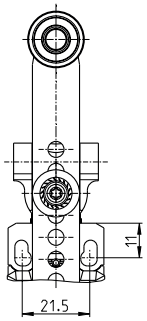
Plastic bodied limit switch
Series IN65

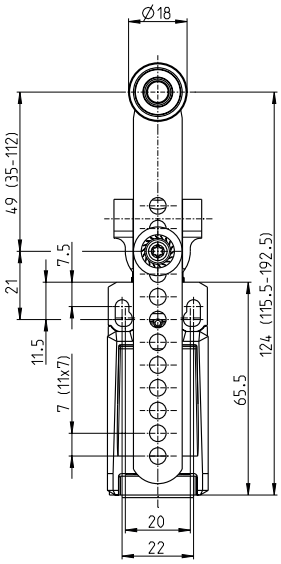
Description **IN65-U1Z AVZK** Article number **6183000475**

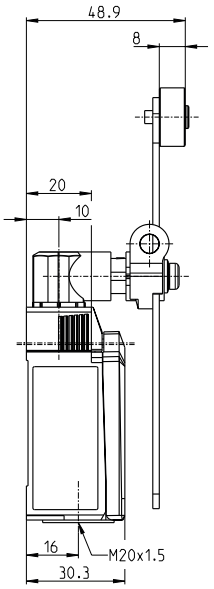
Operating symbol

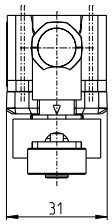


Fixed positioning with
e.g. fixing screw M5
according to the standard
DIN EN ISO 4762.

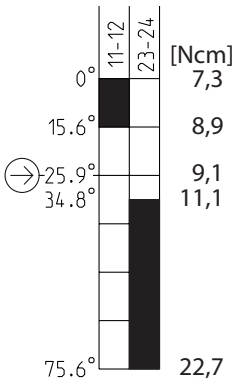






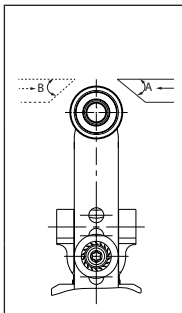


Operating diagram



ON OFF

Tolerance:
Operating point ± 3,5 °;
Direct opening action + 3,5 °
Operating torque ± 20 %



m/s	0,1	0,5	1	2	5
A	45°	45°	45°	40°	30°
B	45°	45°	45°	40°	30°

Technical modifications and errors excepted.
The technical datasheet corresponds to the technical state as of 2026-07-28 and will not be removed in case of changes.

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 / 1,5 A DC 13, U_e/I_e 24 V / 1,5 A
Direct opening action	⊖	acc. IEC/EN 60947-5-1, annex K
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		Metal lever with plastic roller / lever in 15 ° increments adjustable
Ambient air 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. ,1 N.O. (Form Zb)
Isolating distance		4 mm (2x2 mm)
Operating rate	V	0,06 m/min ≤ V ≤ 30 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		10 x 10^6 operating cycles
Mission time		≤ 20 years
Connection		4 screw connections (M3)
Conductor cross-sections		Solid or stranded 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

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EU Conformity
acc. to directive 2014/35/EU (Low-Voltage-Directive)

Approvals	
$_{C}CSA_{US}$	B300
CCC	

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.