

Plastic bodied limit switch

Series IN73

Description IN73-V11 AHK 03 05	Article number 6181000025
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Operating symbol

Plug

Operating diagram

0	18,5
24	39
37,5	45
48	
80	67,5

ON
 OFF

Tolerance:
 Operating point $\pm 4,5^\circ$
 Direct opening action $+ 4,5^\circ$
 Operating torque $\pm 30\%$

Technical drawings showing dimensions: $\varnothing 30$, 64.6, 7, 2, 17.6, 40, 146, 60, 73.5, 5.3, 30, M12x1, 42.5, 58.3, 53.2, 8, 30.9, 16, 17.5, 30, 41.

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

Electrical Data		
Rated insulation voltage	U_i	250 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}	3 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	\rightarrow	acc. IEC/EN 60947-5-1, annex K; direct opening torque: 59 Ncm
Short-circuit protective device		Fuse 4 A gG
Rated conditional short-circuit current		400 A
Protection class		II, totally insulated

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
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.
Bounce duration	The value depends on the operating rate
Switchover time	The value depends on the operating rate
Switching frequency	≤ 30 / min.
Mechanical life	1 x 10 ⁵ operating cycles
Mission time	≤20 years
Connection	Plug M12x1, 4-pole, A-coded
Weight	≈ 0,18 kg
Installation position	operator definable

Actuation
<p>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.</p>

ID for safety engineering (electrical and mechanical)	
B10d Opening error (NC)	2 x 10 ⁵ cycles (at DC-13; 24 V; I _{e2} = 0,1 A)
B10d Closing error (NO)	2 x 10 ⁵ cycles (at DC-13; 24 V; I _{e2} = 0,1 A)

Standards
DIN EN 60947-5-1
UL 508 / CSA C22.2 No.14
DIN EN ISO 13849-1
DIN EN ISO 13849-2

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

Approvals
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.