

Plastic bodied limit switch Series IN73

Description IN73-S11 HK	Article number 6081000025
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Operating symbol

Operating diagram
Values valid in arrow direction X

[mm]	21-22	13-14	13-14	21-22	[N]
0	ON	OFF	OFF	ON	2
1,5	ON	OFF	OFF	ON	10
3,2	ON	OFF	OFF	ON	12
5,6	ON	OFF	OFF	ON	15
6,7	ON	OFF	OFF	ON	

ON
 OFF

Tolerance:
 Operating point ± 0,4 mm
 Direct opening action + 0,4 mm
 Operating force ± 20 %

Dimensions: 35.7, 7, 2, 30, 5.3, 42.5, 60, 73.5, 112.1, 28.7, 30.9, 16, 12, 17.5, 30, 41, Ø20, Ø5.3, M20x1.5

m/s	0,1	0,5	1	2	5
A	-	-	-	-	-
B	40°	40°	30°	20°	10°

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: 25 N
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	Lever with roller (thermoplastic)
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	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	4 screw connections (M3)
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	≈ 0,17 kg
Installation position	operator definable

Actuation
The actuating device is preferably started from 1 side. By lifting the clamp the actuation assembly can be rotated in 45° increments such that 8 actuation directions are possible. The actuation assembly is to be again fastened to the housing by lowering the clamp.

ID for safety engineering
B10d N.C. 20 x 10 ⁶ cycles
B10d N.O. 1 x 10 ⁶ cycles

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 2006/42/EC (Safety-of-Machinery-Directive)

Approvals
DGUV (in preparation)
CCC (in preparation)
cUL _{US} (in preparation)

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.