

Plastic bodied limit switch Series IN73

Description **IN73-31 DGHK**

Article number **6081000047**

Operating symbol

Operating diagram
Values valid in arrow direction X

[mm]	11-12	21-22	31-32	43-44	[N]
0					1,2
1,65					8,5
2,75					9,5
3,3					9,5
8,5					14

ON
 OFF

Tolerance:
 Operating point $\pm 0,6$ mm
 Direct opening action $+ 0,6$ mm
 Operating force ± 25 %

Dimensions: $\varnothing 20$, $0.4-8.3$, 44.2 , 7 , 2 , 60 , 73.5 , 120.6 , 30 , 5.3 , $M20 \times 1.5$, 30 , 42.5 , 30.9 , 16 , 8 , 17.5 , 30 , 41 .

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

Electrical Data		
Rated insulation voltage	U_i	250 V
Rated impulse withstand voltage	U_{imp}	2,5 kV
Rated operational voltage	U_e	240 V AC / 24 V DC
Rated supply frequency AC		50 / 60 Hz
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	\ominus	acc. IEC/EN 60947-5-1, annex K; direct opening force: 37 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 (Zn-die cast), roller (thermoplastic)
Operating temperature	-30 °C ... +75 °C
Storage temperature	-40 °C ... +80 °C
Protection type	IP66 / IP67 acc. EN 60529, Type 4X – Indoor Use only
Pollution degree (built-in switch)	3
Contact material	silver
Contact type	3 N.C. (Form Zb), 1 N.O.
Switching frequency	≤ 60 / min.
Mechanical life	10 x 10 ⁶ operating cycles
Mission time	≤20 years
Connection	8 screw connections (M3,5)
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	≈ 0,19 kg
Installation position	operator definable

Actuation
<p>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.</p>

ID for safety engineering				
<table border="0"> <tr> <td>B10d N.C.</td> <td>20 x 10⁶ cycles</td> </tr> <tr> <td>B10d N.O.</td> <td>1 x 10⁶ cycles</td> </tr> </table>	B10d N.C.	20 x 10 ⁶ cycles	B10d N.O.	1 x 10 ⁶ cycles
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 2014/35/EU (Low-Voltage-Directive)

Approvals
CCC
cUL _{US}

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.