

## Plastic bodied limit switch Series IN73

Description <b>IN73-13 DGKK</b>	Article number <b>6081000060</b>
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**Operating symbol**

**Operating diagram**  
Values valid in arrow direction X

[mm]	11-12	23-24	33-34	43-44	[N]
0	ON	OFF	OFF	OFF	1,5
1,55	ON	OFF	OFF	OFF	8,5
2,6	ON	OFF	OFF	OFF	10
3,05	ON	OFF	OFF	OFF	10
7,5	ON	OFF	OFF	OFF	19,5

ON     OFF
   
 Tolerance:  
 Operating point ± 0,65 mm  
 Direct opening action + 0,65 mm  
 Operating force ± 25 %

Technical drawing dimensions: 27.2-35.1, Ø20, 39.4, 7, 2, 115.9, 60, 73.5, 5.3, M20x1.5, 30, 42.5, 30.9, 16, 8, 17.5, 30, 41, X.

	m/s	0,1	0,5	1	2	5
A	-	-	-	-	-	-
B	40°	40°	40°	30°	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: 20 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	1 N.C. (Form Zb), 3 N.O.
Switching frequency	≤ 60 / min.
Mechanical life	10 x 10 <sup>6</sup> operating cycles
Mission time	≤20 years
Connection	8 screw connections (M3,5)
Conductor cross-sections	Solid or Litz wire with ferrules 0,34 mm <sup>2</sup> - 1,5 mm <sup>2</sup> ; 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
B10d N.C. 20 x 10 <sup>6</sup> cycles
B10d N.O. 1 x 10 <sup>6</sup> 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 <sub>US</sub>

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.