

Plastic bodied limit switch

Series IN65

Description IN65-E2 AHM	Article number 6183000462
--------------------------------	----------------------------------

Operating symbol

13 — 14
23 — 24

Operating diagram

Legend: ON OFF

Tolerance:
Operating point ± 3,5 °;
Operating torque ± 20 %

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

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	400 V AC
Rated impulse withstand voltage	U_{imp}	4 kV
Rated operational voltage	U_e	240 V
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
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 metal roller / lever in 15 ° increments adjustable
Actuating force	F_B 10 N $\leq F_B \leq$ 30 N
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	2 N.O. (Form Zb)
Operating rate	V 0,06 m/min $\leq V \leq$ 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	\leq 60 / min.
Mechanical life	15 x 10 ⁶ operating cycles
Mission time	\leq 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	\approx 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
UL 508 / CSA C22.2 No.14

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

Approvals
CCC (AC 15, U_c/I_e 240 V / 1,5 A; DC 13, U_c/I_e 24 V / 1,5 A)
cCSA _{US} B300, 240Vac 1.5A G.P., 24Vdc 1.5A R. Enclosure Type 4X

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.