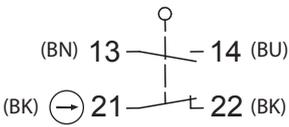
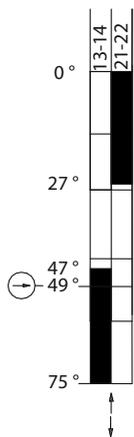


Fig. 112 Gate Valve Supervisory Switch Model: I49-U1Z AH

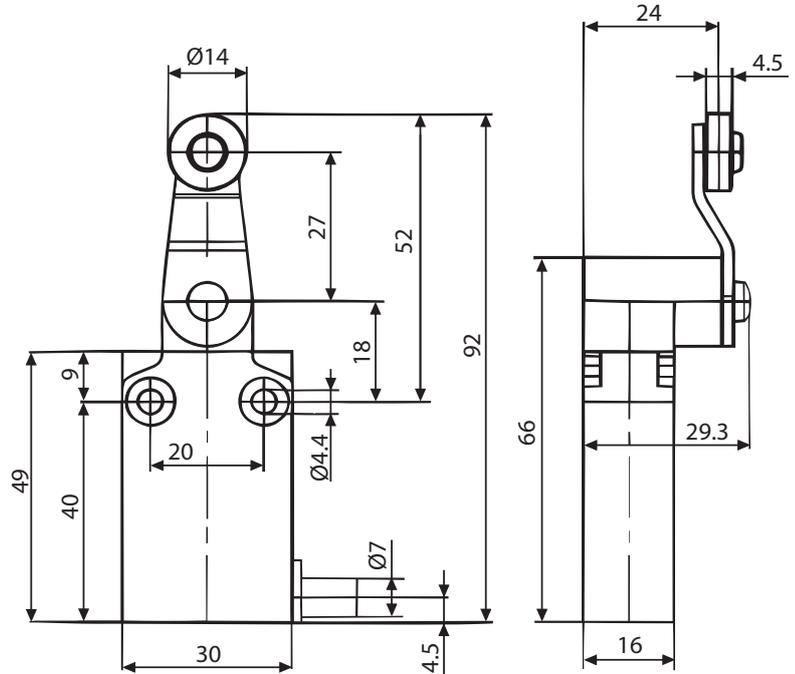
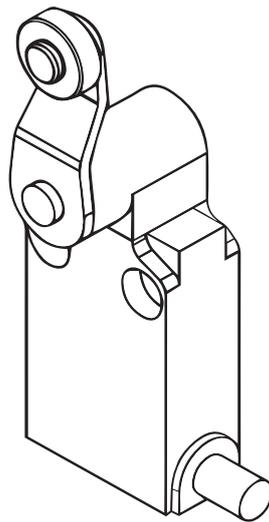
Operating symbol



Operating diagram



On Off



Electrical Data

Rated insulation voltage acc. to DIN EN 60947-1 acc. to UL 508 and CSA C22-2n° 14	U_i 400 V (degree of pollution 3) B300, R300
Conv. thermal current acc. to DIN EN 60947-5-1) 0 < 40 °C	I_{the} 10 A
Rated operational voltage	U_e 240 V
Utilization category	AC-15, 24V - 10 A / 240 V - 3 A DC-13, 24V - 2.8 A / 125 V - 0.22 A / 250 V - 0.27 A
Direct opening action	→ acc. to IEC/EN 60947-5-1
Short-circuit protective device $U_e < 500$ V a.c. - gG type fuses	Fuse 10 A gG
Protection class	II, totally insulated

Mechanical Data

Enclosure	Pre-wired, Double insulation, Plastic Casing IP67, 30mm width (polymeric)
Actuator	Plunger (Nikel - plated), lever (galvanized), roller Ø 14mm (nylon)
Ambient air temperature -during operation -for storage	-25 °C ... + 70 °C -40 °C ... + 70 °C
Contact type	Non overlapping slow action contacts, 1 NO, 1 NC
Mechanical life	10 x 10 ⁶ switching cycles
Switching frequency	60 / min
Velocity for actuating	1.5 m/s
Resistance between contacts	< 25 mΩ
Connection	PVC 4x 0.75 mm ² UL cable, 1m lenght
Installation position	all positions are authorized
Protection type	IP67 acc. to IEC/EN 60529

Standards	DIN EN 60947-1 DIN EN 60947-5-1
EU Conformity	acc. to directive 2006/95/EC
Approvals	cULus
Notes	Type 1 enclosure ("indoor use only") acc. to UL50

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Fig. 112 Gate Valve Supervisory Switch Model: I49-U1Z AH

Installation Instructions

Tools Required:

- 2mm split pin punch
- Multimeter with continuity mode
- Philips head screwdriver

Fasteners required:

- 2x M4x30 PAN screw
- 2x M4 nut

1. Remove 2x pins from the body of the switch. Rotate the top section of the switch 180° as shown at the picture. (Image 1)
2. Insert the pins back into the body of the switch. (Image 2)
3. Loosen the adjustment screw; rotate the lever so it is in 0:40 position. Tighten the adjustment screw. (Image 3)
4. Fully close the valve.
5. Attach the switch to the valve mounting plate using 2x M4 screws and nuts. Tighten the bolts, make sure the switch is firmly attached. (Image 4)
6. Connect RED probe of the multimeter to the BROWN cable of the switch and BLACK probe of the multimeter to the blue cable. Switch the multimeter to "CONTINUITY" mode. (Image 5)
7. Fully open the valve. Beeping of the multimeter indicates activation of the switch. Switch should operate only when the valve is in fully /almost fully position.
 - If the switch doesn't operate, close the valve, loosen the adjustment screw, and carefully rotate the lever to 0:38 position. Tighten the adjustment screw
 - If the switch operates too early, before the valve is fully open, close the valve, loosen the adjustment screw, and carefully rotate the lever to 0:42 position. Tighten the adjustment screw.
8. Slowly rotate the handwheel to close the valve. Beeping should stop immediately after the handwheel is turned from fully open position.



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