

Bistable change-over contact **BK-390** for bypass-tubes Mounting and Start-up Instructions

Safety Instructions

The precondition for flawless, safe operation of the change-over contacts is appropriate transport, storage, assembly, professional installation and start-up, proper use and maintenance.

These activities may only be performed by persons, who have the necessary expertise and qualifications. The relevant safety regulations for the construction and operation of electrical systems must be observed. If information contained in these instructions should prove to be inadequate in any way, please contact the manufacturer.

Function

The BK-390 is a magnetically-operated changeover switch that permanently changes its electric switching status due to a switching magnet passing by (float/weight) depending on the direction of movement. The switching status is shown in the status window of the housing cover. **PASSING UNDER** =BLACK, **PASSING OVER**=WHITE. After the housing cover has been opened, the switching status can be pre-set manually by turning the display wheel (BLACK/WHITE): turn clockwise "PASSING OVER", turn anti-clockwise "PASSING UNDER".

Application

For mounting on the side of bypass tubes. The number and position of the changeover contacts can be chosen at random.

Mounting

Mount the switch with pipe clip parallel to the bypass tube at the desired position. The cable connection must point downwards. Only use suitable E.L.B. floats. The "O" marking on the float must point upwards. Do not install any magnetic materials near the switch. Minimum distance to other changeover contacts > 40 mm. Using tubes with an outer diameter of 32-34-40 mm may cause a blockage of the float. In the event of such behaviour, please increase the distance between contact and pipe. (Plastic spacers for example).

Electrical connections

Open the housing cover and make the electrical connections in a de-energised state. Do not exceed the maximum electrical values (see technical data). Close the housing cover.

Maintenance/servicing

The BK-390 does not require any special servicing, over and above the general inspection/functional check of the electrical system.

Technical data

Connection, maximum values	
Degree of protection	IP 65
Wire cross-section	Max. 1.5 mm ²
Operating	- 20°C to + 70°C
Switching point	> 40 mm
Switching hysteresis	approx. 10-15 mm

Silver contact	
Switching voltage	24...250 V AC/DC
Switching current	20 mA...6A AC/DC
Switching power	Min. 2 VA/W Max. 500 VA, 60 W

Material	
Housing	Polycarbonate
Fastening	V2A clips
Screw fitting Cable connection	PA

Gold contact	
Switching voltage	5...250 V AC/DC
Switching current	1 mA...0.3 A AC/DC
Switching power	Min. 5 mW Max. 25 VA, 3 W

