



BFD/A

Motion sensor with infrared sensor for ceiling installation

Measuring size: motion

Output: Relay

Highlights: change-over contact



Description

The motion sensor BFD/A registers movements over a scope 360° with a coverage of approx. 10 m using infrared sensors and, in the event of a movement, switches a changeover contact. The retention time can be freely set between 5 seconds and 15 minutes using a 270° potentiometer. The unobtrusive housing with a clip fastening and reverse polarity protected socket is suitable for the quick assembly in intermediate ceilings. The motion sensor is used for motion dependent control processes, such as e.g. temperature or light control in offices.

Technical Specifications

Measuring principle	alteration of position from persons and subjects with an temperature difference of > 3 K to the sensor
Measurement range motion	motion yes/no, apex angle 90°/110° on 360° range, reach 10 m
Response time (t90)	< 1 s
Sensor	infrared motion sensor
Sensor protection	mounted inside housing
Supply voltage	24 V AC/DC (±5%)
Current consumption	max. 20 mA at 24 V DC
Alarm output	1 x potential-free change-over contact, 48 V, 1 A
Holding time	adjustable from 5 sec. up to 15 min. by 270° potentiometer
Electrical connection	screw terminals max. 1,5 mm ²
Cable	1 m PVC cable
Housing	Sensor: aluminium, colour signal white like RAL 9003, Electronic: polycarbonate PC UL 94 V0 with hinge locks, color signal white similar to RAL 9003
Cable gland	PG11 high-strength cable gland with strain relief
Dimensions	Housing: L 89 x W 80 x H 47 mm
Protection type	Housing/electronic: IP65, Sensor: IP30
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	0...+50°C
Storage temperature	-20...+50°C
Installation	in the false ceiling by 2 tension springs



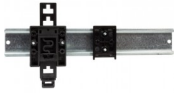
Approvals	CE, EAC, RoHS
-----------	---------------

Variants

Article Number	
Movement	Output movement

BFD/A-R	
yes/no	change-over contact

Accessories



SB/E

Snap-on mounting for DIN rails



Dimensional Drawing

