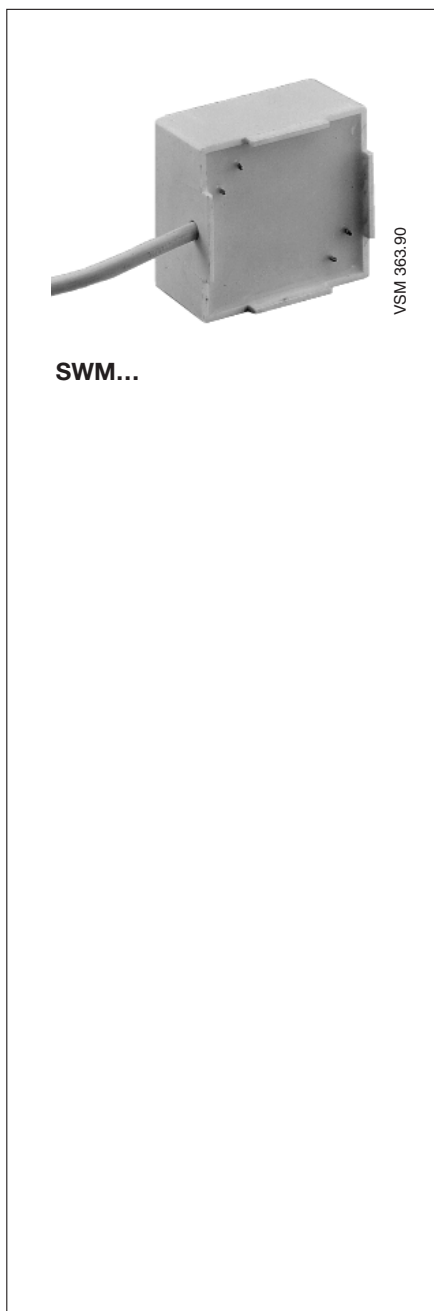


Water Detectors

SWM4

SWM4/RN



Application

The water detector is used to detect water ingress, e.g., pipe fractures, seepage of groundwater and sewage.

Mode of operation

The water detector senses rising water via 4 electrodes which are located approx. 1 mm away from the edge of the housing.

The SWM4 was designed to be connected to the detector zones or circuits of alarm systems. It does not require its own power supply as it is supplied directly from the zones. Signals are stored. A reset is carried out by removing the circuit voltage.

The SWM4/RN draws its power from an external voltage source (10 – 23 V DC). A potential free changeover contact can be used to control external devices. A non-floating transistor is available to drive an external LED. The detector resets itself automatically when the affected area dries out.

Design

The sensor is located in a housing which is sealed on all sides. There is an LED on the top of the housing to indicate that the detector has been tripped.

Technical data for SWM4

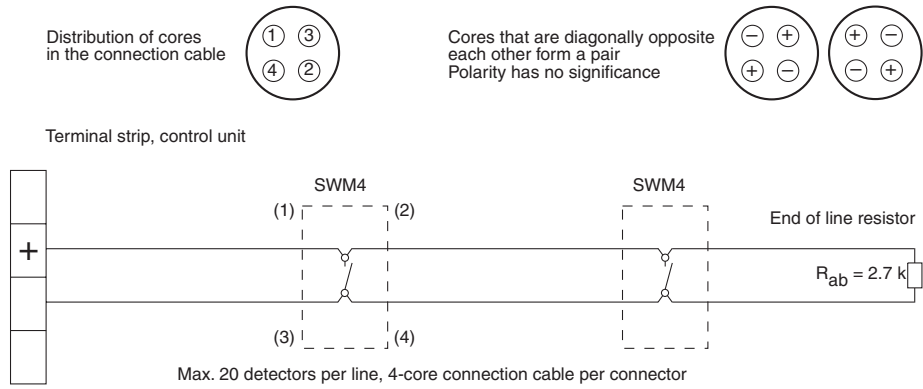
Power supply	4 – 20 VDC
Alarm current (RV = 2.7 kΩ typ.)	max. 6.5 mA
Max. permitted alarm current	20 mA DC
Standby power consumption	max. 20 µA
Reset voltage	≤ 1.3 VDC
Temperature range	0 ... 60°C
Humidity	0 ... 95%
Connection cable	5 m LIYY, 4 x 0.14 mm ²

Technical data for SWM4/RN

Power supply	10 – 23 VDC
Power consumption	approx. 20 mA (dependent on supply voltage)
Load capability of the relay contacts	60 V DC/AC (AC1), 0.5 A
Parallel output	Open collector with 1.8 kΩ internal resistance, can only be connected in d.c. mode
Temperature range	0 ... 60°C
Humidity	0 ... 95%
Connection cable	5 m LIYY, 6x 0.14 mm ²

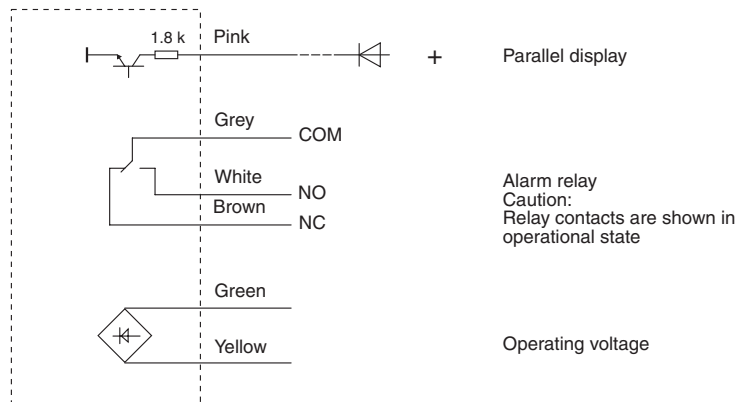
Water Detectors SWM4 and SWM4/RN

Connection of SWM4

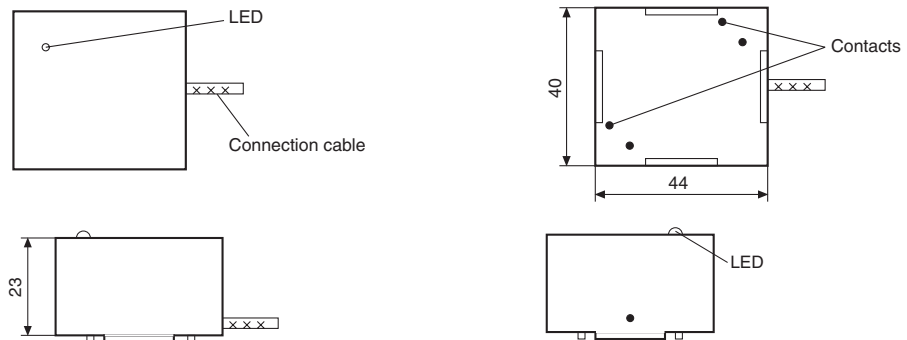


- ① The water detector can be operated in zones or circuits of ABB intruder alarm systems without a series resistor.
- ② In all other applications, a series resistor $R_V = 2.7 \text{ k}\Omega$ must be used.

Connection of SWM4/RN



Dimension drawing (mm)



Ordering information

Description	Short code	Product code	bbn 4013232 EAN	Weight 1 Pc. (kg)	Package (Pc.)
Water Detector	SWM4	GHQ 403 0001 R0004	05740 3	0.21	1
Water Detector	SWM4/RN	GHQ 403 0001 R0012	05750 2	0.21	1



The information contained in this pamphlet is subject to change without further notice.

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