1 zone water sensor control device HY-NX1

with sensor monitoring, LED display, touch button and piezo

Description

The patented 1 zone water sensor control device continuously evaluates connected water sensors. The control device indicates water or broken cables visually using the LED display and acoustically using the piezo. The alarm can be reset using the touch button on the front.
2 potential-free relays are available for additional signaling. Up to 4 cable break monitored V2 sensors or any number of unmonitored V1 sensors can be connected via a 2-wire cable.

Application

The 1 zone water sensor control device HY-NX1 is suitable for monitoring raised/access floors, server/boiler/technical rooms, basements, production and workshop areas, archives, pool systems or canals. The HY-NX1 can also be used to monitor water level changes.

Function

The water detector control device can be placed in an easily accessible location, regardless of the sensors connected, e.g. in a technical room. If a connected sensor detects water, this is indicated visually and acoustically on the control device. Alarms can be acknowledged using the touch button on the front and remain saved in the event of a power failure. For additional signaling, 2 potential-free relays are available.

Various water sensors for different areas of application are available. They detect all conductive liquids such as e.g. water, milk, fruit juices, acids and chemicals.

Tender text

- 1 zone water sensor control device with sensor monitoring and piezo
- max. 4 monitored V2 sensors / 1 monitored HY-FB V2 Flat Band sensor / any number of unmonitored V1 sensors
- LED display with touch operation
- Protection class IP54
- HY-NX1 water detector control device 1 zone / item no. 1381
- Wunderli Electronics AG, Weinfelden – wue.ch

Technical data & order numbers

See the next page

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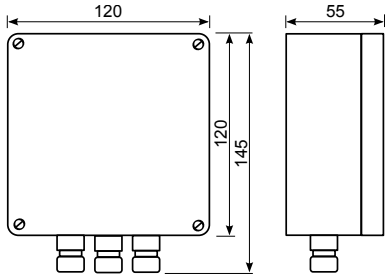
HY-NX1

Technical data

Enclosure:	Polycarbonate light gray
Dimensions:	120 x 120 x 55 mm
Cable gland:	3x plastic M16
Weight:	485 g, packaging included
Protection class:	IP54
Operating temperature:	-10 bis +50 °C
Operating voltage:	230 V AC, 24 V AC, 12 V DC, 20–60 V DC Special voltages on request
Power consumption:	typical 0.7 W max 2.4 W
Operation/ signaling:	Touch button on front (alarm reset) LEDs (active, system error, alarm zones) Piezo integrated (65 dB/m)
Sensitivity:	5–200 µS/cm, adjustable by potentiometer
Settings:	Sensitivity setting using a potentiometer Dip switch for function setting
Sensors:	V2 monitored: with cable break monitoring V1 unmonitored: without cable break monitoring
Number of sensors per zone:	max. 4 monitored V2 sensors / 1 monitored HY-FB V2 Flat Band sensor / any number of unmonitored V1 sensors. Recommendation for connection cables longer than 150 m or HY-FB sensors: 1 sensor per zone
Sensor voltage:	<5 Vpp
Sensor cable length:	Up to 300 m 2-wire cable: up to 200 m cross section 0.50 mm² over 200 m cross section 0.70 mm² The maximum length of the cable depends on the installation environment: Interfering influences, e.g. parallel power cables reduce the maximum cable length.
Output:	1x potential-free relay for alarm horn / system error / collective alarm (Form C 10A/250V) 1x potential-free relay for zone alarm (Form C 10A / 250V)



Item no.	Eldas no.	Type
1381.01	539 990 100	HY-NX1 1 zone water sensor control device, 230 V AC
1381.12	539 990 130	HY-NX1 1 zone water sensor control device, 12 V DC
1381.21	539 990 140	HY-NX1 1 zone water sensor control device, 24 V AC
1381.62	539 990 150	HY-NX1 1 zone water sensor control device, 20–60 V DC

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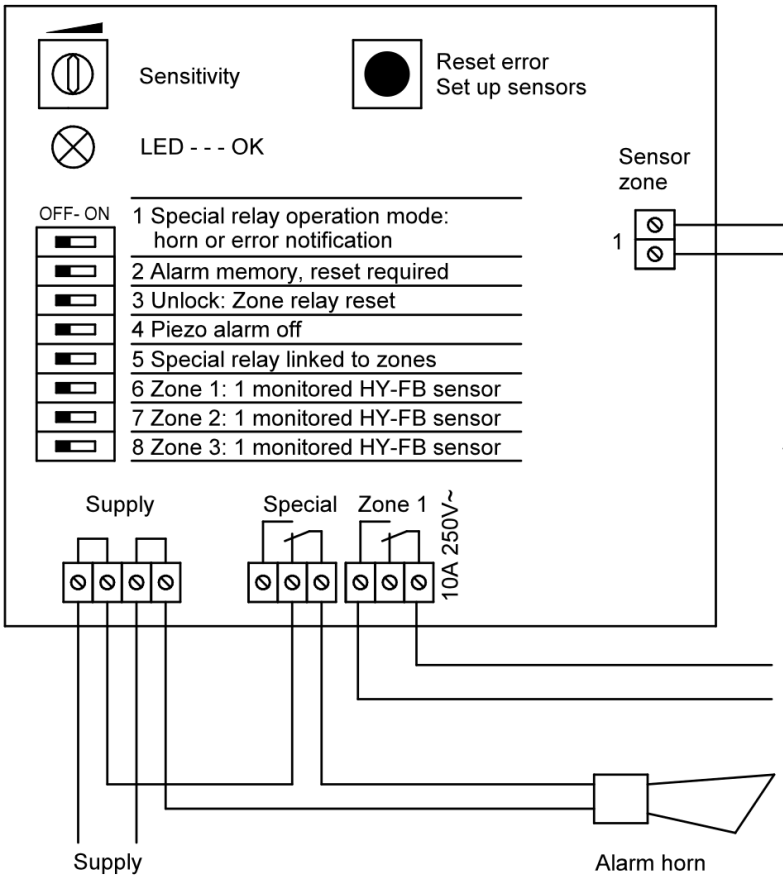
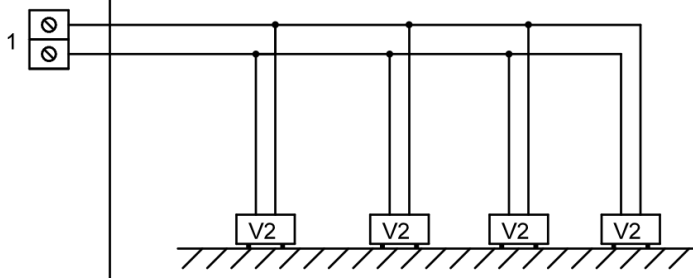
HY-NX1

Anschlussschema



Max. 4 monitored V2 sensors per zone.

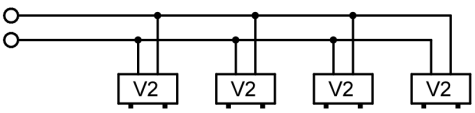
Depending on environmental influences, the max. sensor cable length is 300 m per device:
up to 200 m use 0.50 mm2
over 200 m use 0.70 mm2



Example of possible wiring
(relays are energized during operation):

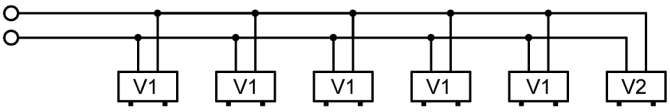
Zone as opener for
external alarming:
sms alarm, home automation,
pump control, alarm system ...

Alarm horn alerts on site and can be reset using the touch button on the front of the control device.



Max. 4 monitored V2 sensors per zone.

V2 sensors with cable break monitoring are labeled accordingly and/or marked with red shrink tube.



Layout with more than 4 sensors per zone

This arrangement allows any number of sensors. The cable to the V2 sensor and the V2 sensor itself is monitored, the V1 sensors and their cables are not.

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