

Leakage switch

For detection of liquid leakage. Designed for alarm, control, and monitoring applications of containers, false floors, suspended ceilings, or rooms to prevent unintended leakage. With changeover relay contact for control and display systems or for series connection with a valve to interrupt the water flow directly. Resetting takes place automatically after drying off the contacts. NEMA 4X / IP65 rated housing.


Type Overview

Type	Switching contact	Additional features	Detection cable length
22HL-505	SPDT	Auto reset	16.4 ft [5 m]
22HL-520	SPDT	Auto reset	65 ft [20 m]

Technical data

Electrical Data	Nominal voltage	AC/DC 24 V
	Nominal voltage range	AC 21.6...26.4 V / DC 13.5...26.4 V
	Power consumption AC	1.5 VA
	Power consumption DC	0.6 W
	Electrical connection	Pluggable spring-loaded terminal block max. 2.5 mm ²
	Cable entry	Cable gland with strain relief ø6...8 mm
Functional Data	Medium	Water Water-glycol mixture up to 50/50
	Output signal leakage detector relay note	SPDT, dry contact Max. switching current 1 A @ 24 V Min. switching current 5 mA @ 10 V
	Display	LED, Green - Power supply OK Red - condensation
	Display type	LED
Measuring Data	Measured values	Conductivity
	Switching threshold	≈10 µS
Safety Data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1
	Quality Standard	ISO 9001
	Type of action	Type 1.B
	Rated impulse voltage supply	0.8 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-4...122°F [-20...50°C]
	Fluid temperature	-4...158°F [-20...70°C]
Materials	Housing	Cover: PC, transparent Bottom: PC, orange Seal: NBR70, black UV resistant

Technical data

Materials	Cable	PVC
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Safety Notes


This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorized modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Remarks

General Remarks Concerning Sensors Sensing devices with a transducer should always be operated in the middle of the measuring range to avoid deviations at the measuring end points. The ambient temperature of transducer electronics should be kept constant. The transducers must be operated at a constant supply voltage (± 0.2 V). When switching the supply voltage on/off, onsite power surges must be avoided.

Installation notes

Installation on a surface The detection cable can cover larger areas. It is installed in a meandering pattern. During installation, ensure that the detection cable rests directly on the ground. The detection cable is secured along its entire length with the included adhesive saddle clips. Thanks to the insulation between the twisted sensor cables, the detection cable can also be laid on electrically conductive surfaces such as steel tubs.

Installation on a pipe Thanks to the insulation between the twisted sensor cables, the detection cable can also be laid on electrically conductive surfaces such as steel or copper pipes. On pipes, it is installed in a spiral pattern using cable ties. Caution: The switch reacts to water; if condensation forms on the pipe surface, the switch will be triggered.

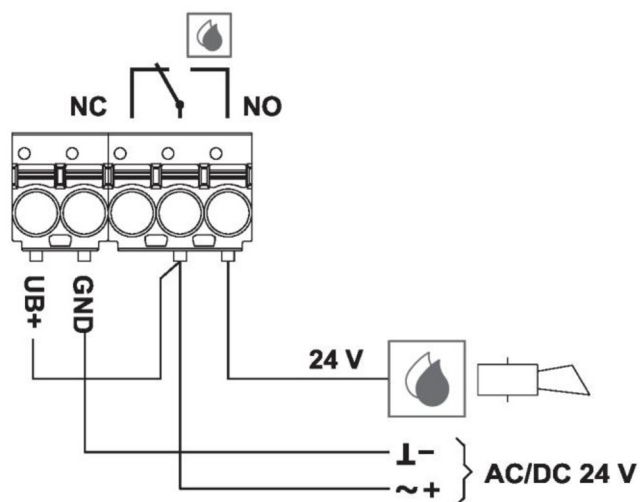
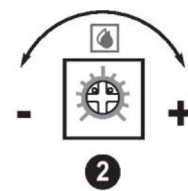
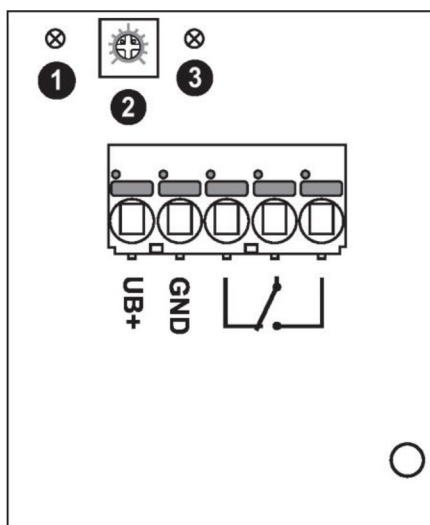
Parts included

Description	Type
Mounting plate S housing	A-22D-A09
Dowels	
Screws	
Adhesive saddle clips	

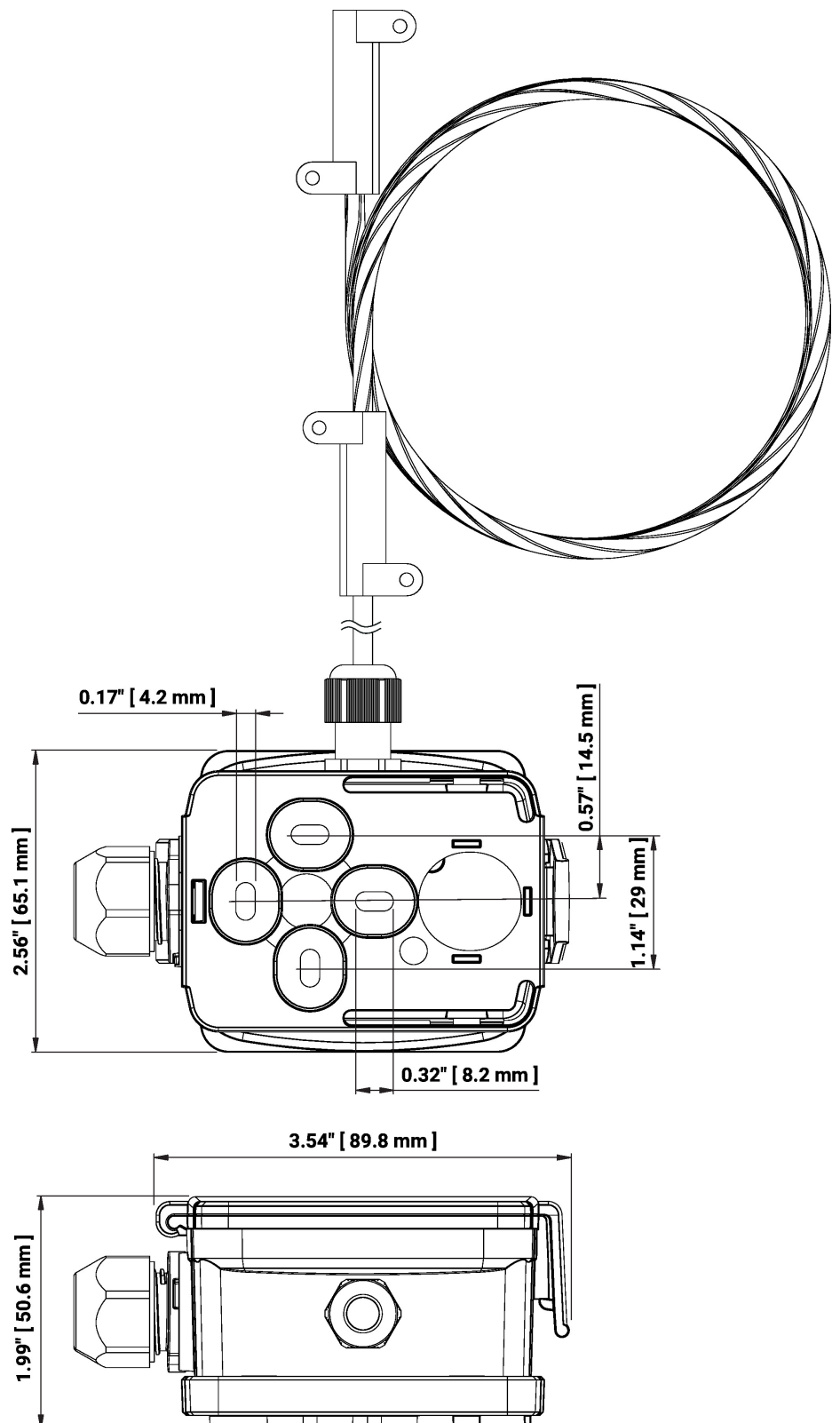
Accessories

Optional accessories	Description	Type
	Connection adapter flex conduit, M20x1.5, for cable gland 1x 6 mm, Multipack 10 pcs.	A-22G-A01.1

Wiring Diagram



Dimensions



Further documentation

- Installation instructions