

Leakage sensor / water ingress detector with switching output

The leakage sensor / water ingress detector **HYGRASREG® LS** with leakage location is used to detect water ingresses and ingresses of conductive liquids. It is designed for the early detection of water leakages to protect sensitive electrical and electronic equipment in buildings against moisture. The water ingress detector consists of an electronic monitoring system with LED status indicator, and a matching electrode, which can be extended by the user.

TECHNICAL DATA

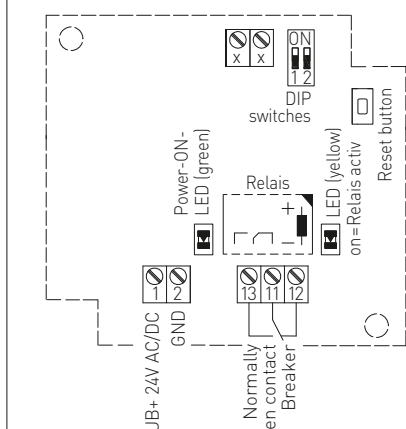
Power supply:	24 V AC (± 20 %) 15...36 V DC
Monitoring range:	conductive liquids between the probes
Switching threshold:	conductance between electrodes > threshold
Power consumption:	< 1.0 VA / 24 V DC < 2.2 VA / 24 V AC
Output signal:	potential-free changeover contact (24 V), 1 A ohmic load
Process connection:	two external probes, laid according to measuring task (on the LS-2) or upright on four electrodes with insulating plastic caps, which are mounted on the enclosure underside (on the LS-4)
Electrical connection:	0.14 - 1.5 mm² via terminal screws
Operating range electronics module:	10...95 % r. H.; 0...+50 °C
Enclosure:	plastic, material polyamide, 30 % glass-globe-reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover is transparent!
Enclosure dimensions:	72 x 64 x 43.3 mm (Tyr 1)
Cable gland:	M 16 x 1.5, including strain relief, exchangeable, max. inner diameter 10.4 mm
Protection class:	III (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326, EMC directive 2014 / 30 / EU
Accessories:	for device type LS-2 (2 electrodes 10 mm, already permanently mounted) Electrode extension 15 mm, 20 mm and 30 mm, 2 pieces each, brass, nickel-plated (enclosed) Cable sensor , L = 1 m (optional)

FUNCTION

The leak sensor can be set using DIP switches so that the relay is energised during normal operation. This means that relay opens in the event of a fault (water damage, cable breakage, power failure). This also enables a break in the cable to the sensor to be detected.

Schematic diagram

LS



Self-locking (selectable)	DIP 1
Self-locking ON	ON
Self-locking OFF	OFF
Relay status (selectable)	DIP 2
Normally open contact OPEN	ON
Normally open contact CLOSED	OFF

Connecting diagram

LS

1	UB+ supply voltage 24V AC/DC
2	UB- GND
13	Normally open contact
11	changeover (24 V)
12	Breaker

LS-2
(2 electrodes)



LS-4
(4 electrodes)



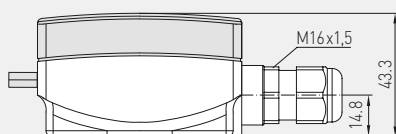
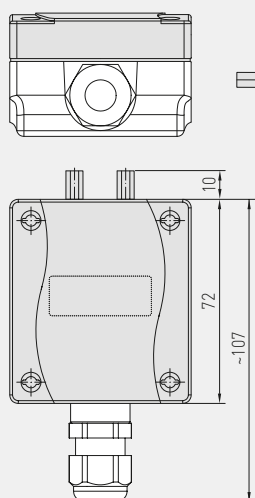
**NEW**

S+S REGELTECHNIK

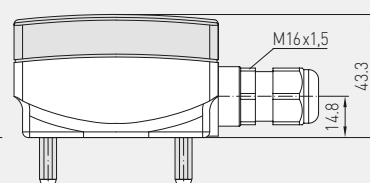
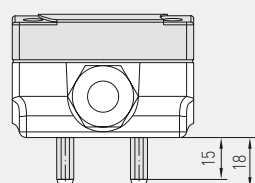
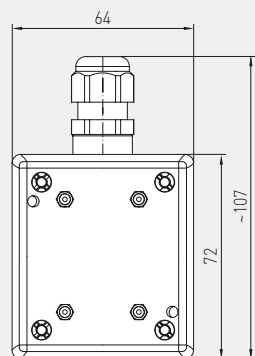
HYGRASREG® LS

Leakage sensor / water ingress detector
with switching output

Dimensional drawing

LS-2**LS-2**
Electrode
extensions**LS-2**
(2 electrodes)

Dimensional drawing

LS-4**LS-4**
(4 electrodes)**HYGRASREG® LS** – Leakage sensor / water ingress detector

Type / WG01	Detection of leakage of conductive liquids	Output Humidity (relative)	Item No.	Price
LS-2			2 electrodes	
LS-2	Conductance > switching threshold	Changeover contact	1202-1042-0000-000	102,11 €
LS-4			4 electrodes	
LS-4	Conductance > switching threshold	Changeover contact	1202-1042-0000-100	120,36 €
Accessories				
LS-KABELSONDE	Cable sensor , L = 1 m, for device type LS-2 (2 electrodes)		1202-1042-0000-001	21,48 €