

# PSO+/PSO point sensor



- Fast detection of the leak location
- Central and decentral voltage supply possible
- Can be combined with SCR and PS

The PSO+ point sensor and the PSO point sensor are used to detect electrically non-conductive liquids such as oil, enabling the location of the leak to be detected quickly. Thanks to the special optics, the PSO+/PSO can operate reliably also when facing metallic surfaces (e.g. oil catch pan made of sheet steel). The integrated load relay can operate actuators, such as a check valve, directly on site. A second change-over contact reports the circuit state to the monitoring electronics. The point sensor can be supplied centrally with DC 24 V via the signal cable. It is similarly possible to provide voltage decentrally by means of a commercially available plug-in power supply unit. With its additional terminal block, the PSO+ can be combined with the SCR and PS sensors as required. The monitoring electronics RLA<sup>net</sup>, RDW03 and RDA01 as well as corresponding accessories (see catalogue) are also part of the BARTEC water detection system.

## Technical data

Rated voltage	DC 24 V ±10 %, 0.4 W
Measuring method	Optical, sensitivity: very small amounts, detection height adjustable using screw feet, pre-set to 2 mm
Outputs	Group alarm relay, 2 change-over contacts DC-13: 1 A, 12 V to 48 V Fail-save, relay is activated, Change-over contact: if leak is detected, terminals NO – C opens
Display	Internal LED green: voltage ON LED red: relay activated, no leak
Ambient temperature	-25 °C to +50 °C at 5 % to 95 % air humidity (non-condensing) Optics und screw feet (leak liquid) -25 °C to +80 °C -40 °C to +125 °C (on request)
Storage temperature	-30 °C to +60 °C
IP Code	IP 65/67
Material	Enclosure: PVC, polysulfone* Screw feet: stainless steel (1.4301)/brass, nickel-plated  * good resistance to acids and lyes, mineral lubricants and alcohols; not resistant to petrol; the optics material Trogamid is available on request
Fixing	Free-standing, floor installation
Dimensions	Ø 80 x 70 mm (D x H) without cable glands
PSO+ terminals	Screw terminals, for series connection (via installation cable, e.g. LIYY): Terminal 1 (e.g. white) - terminal 5 Terminal 2 (e.g. brown) - terminal 6 Terminal 3 (e.g. green) - terminal 7 Terminal 4 (e.g. yellow) - terminal 8 Integrated terminal resistor 220 kΩ on terminals 5 and 7; to be removed for connection in series
PSO+ and PSO terminals	Voltage supply and floating changeover contacts: Terminal + (e.g. white) - DC 24 V Terminal - (e.g. brown) - 0 V Terminal 1/4 NO contact Terminal 2/5 NC (e.g. green) contact Terminal 3/6 C (e.g. yellow) - root

## Ordering information

PSO+ point sensor	17-85M6-1102/1A00
PSO point sensor	17-85M6-1102/0A00