Warranty and Support

serial number manufacturing date

QC check mark(passed) (stamp)

BASI Instrument AB Torget 2 SE-270 33 VOLLSJÖ, SWEDEN tel: +46 (0)40 88009 fax: +46 (0)40 929877 e-mail: sales@basi.se

Warranty

BASI Instrument AB warrants this product to be free from defects in materials and workmanship for 1 year. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see 'Specifications').

Technical support

In the unlikely event that you encounter a problem with your BASI device, please call your local dealer or contact directly our support team.

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v5-06.09

BASI Instrument AB, P.O.Box 53, SE-270 33 VOLLSJÖ, SWEDEN tel: +46 (0)40 88009, fax: +46 (0)40 929877, e-mail: info@basi.se



OPTICAL LEVEL SWITCH

BLCSO

OPERATION MANUAL



Please read this Operation Manual before mounting and operating! Save the Manual for future references!

Overview

The BLCSO level sensor can be used as a single level switch for sensing presence or absence of liquid. It is suitable for the most of the low-viscose industrial liquids and – thanks to its stainless steel casing and polysulphone light sensor – for hygienic applications too. This switch is especially useful in cases, in which float and conductive sensors are not applicable, and capacitive and pressure sensors are too expensive.

Specifications

Sensing Element Liquid Type Repeatability Hysteresis Output

Transistor Voltage Drop (output ON) Response Time (level ON) Response Time (level OFF) Power Supply Consumption (output ON)

Consumption (output ON Connection Thread

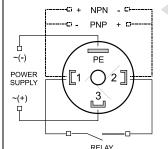
Medium Temperature Medium Pressure Ambient Temperature / Humidity Storage Temperature Wetted Parts Enclosure Wiring polysulphone solid-state optical sensor low-viscose 1 mm 1 mm (depending on liquid)
☐ relay 5A/250VAC with NO contact, ☐ relay 5A/250VAC with NC contact,
☐ transistor NPN 0.1A/60V with NO action, □ transistor NPN 0.1A/60V with NC action,
□ transistor PNP 0.1A/60V with NO action, ☐ transistor PNP 0.1A/60V with NC action, $\hfill\square$ MOS gate 0.1A/60V, optically isolated max. 2 V < 100 ms < 1s 12...24 VAC/DC ± 10% p-p at 50 Hz □ 100 mA, □ 150 mA \square G%", \square G½", \square %" NPT, \square ½" NPT, -40...120 °C; submersed: -20...75 °C max. 25 bar; submersed: max. 6 bar -20...75 °C / 0...95% RH -40...85 °C stainless steel; IP68 stainless steel; ☐ IP65, ☐ IP68 ☐ DIN43650 connector,

□ cable m

Mounting and Wiring

Mounting

- The BLCSO with connector (BLCSO-1) is designed for side mounting, while the variant with cable (BLCSO-2) can also be used submersed.
- To mount the switch on a vessel wall, use the connection thread (see 'Specifications') and an appropriate gasket.



	Pin#	Relay	PNP/NPN
Wire	1	red	red
	2	red	black
	3	white	white
	PE	white	white

Wiring

- Wire BLCSO-1 via its connector, following the diagram on the left.
 - When wiring an BLCSO-2, mind the wiring diagram and the pin-to-wire correspondence for the different output types.

Waste Disposal



Do not dispose of electronic devices together with household waste material! If disposed of within European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive 2002/96 on the Waste Electrical and Electronic Equipment.