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ISOLATING AMPLIFIER FOR LEVEL SWITCHES

LCI2x

OPERATION MANUAL



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

Overview



Important notes:

- ◆ *LCI2x do not provide intrinsically safety themselves!*
- ◆ *When used in potentially explosive atmosphere, LCI2x must operate ONLY with approved 'EEx d' level probes!*

COMECO's isolating amplifiers series LCI2x are cost-effective remote isolating units especially designed to be used with COMECO's float level switches series LCSFT. LCI20 is a single-channel variant, equipped with one input and one relay output. The double-channel variant LCI22 is intended for controlling two levels (low and high) and therefore has two inputs and two corresponding output relays. Both variants operate with a wide range of power supply voltages, providing an isolated sensor voltage of only 2.5 V. The internal isolation schematics ensure an isolation level of 750 V between every input and output as well as power supply.

Installation

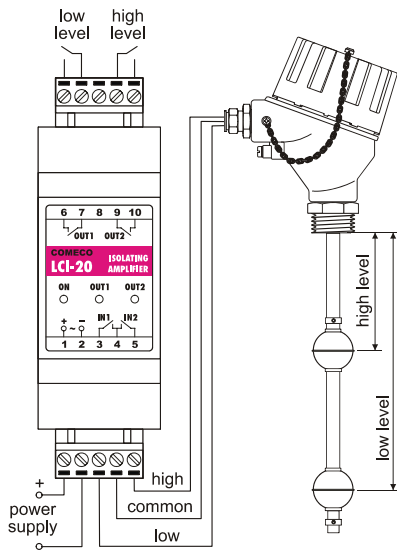
Mounting

- ◆ Use standard 33 mm DIN rail.
- ◆ Find the rail-installing plastic mechanism on the back side of the unit.
- ◆ Insert the upper rail edge into the upper plastic groove.
- ◆ Press the unit toward the lower rail edge until the moving part of the installation mechanism clicks.

Dismounting

- ◆ Insert the tip of a proper screwdriver into the rectangular hole of the installation mechanism located below the input terminals of the mounted unit.
- ◆ Press the screwdriver tip down and pull out (up) the unit.

Electrical Connection



Connect the amplifier to LCSFT level probe, power supply, and external control circuit as show on the figure and on the unit front panel.



Important note:

Strictly observe the supply voltage and relay contact requirements!

Operation

- ◆ At power-on, 'ON' LED lights green and the unit is ready for use.
- ◆ When the low level is reached, the alarm relay OUT1 switches on and 'OUT1' LED lights red.
- ◆ When the high level is reached, relay OUT2 switches on and its respective LED lights red.

Specifications

Channels	<input type="checkbox"/> one, <input type="checkbox"/> two
Input Signal	20 k Ω \pm 10% (level off), 10 k Ω \pm 10% (level on)
Output Relay(s)	5A/250VAC with NO contact
Switching Hysteresis	\leq 0.01% of span
Power Supply	8...28 VAC/DC
Consumption	less than 2 VA
Voltage Applied to Sensor	2.5 VDC
Current Switched by Sensor	63 μ A
Operating Temperature / Humidity	-10...50 $^{\circ}$ C / 0...85% RH
Isolation Level	750 VAC for 1 min
Protection Class	IP20

Warranty and Support

Warranty

COMECO warrants this product to be free from defects in materials and workmanship for one 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 COMECO device, please call your local dealer or contact directly our support team.

.....
serial number

.....
manufacturing date

QC check mark(passed)
(signature, stamp)

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