

Level-Switch Isolating Unit LCI2x

- ◆ Isolating amplifier with up to 2 channels
- ◆ Operates with ATEX level switches series LCSFT
- ◆ Provides 2.5 V sensor voltage
- ◆ Isolated AC/DC power supply
- ◆ Output and power state indication
- ◆ 750 V isolation
- ◆ Rail mounting
- ◆ Low cost

The LCI2x isolating amplifier is a low-cost isolating unit with robust plastic case for rail mounting, especially designed to be used with COMECO's ATEX-approved float level switches series LCSFT. The isolator operates with a wide range of power supply voltages and provides an isolated sensor voltage of only 2.5 V. The internal optical isolator and pulse transformer ensure an isolation level of 750 V. LCI2x can be ordered either with 1 input and 1 relay output, or, when the application requires controlling high and low level points, with 2 inputs and 2 corresponding output relays. Up to 3 LEDs provide convenient indication of the output and power state. The excellent price-to-performance ratio makes the remote isolating unit LCI2x a very useful device for low-cost Ex applications in liquid level control.



Technical specifications

Inputs (1 per channel)	
<i>Input signal</i>	OFF/ON, resistive: 20/10 kΩ ± 10%
<i>Input (sensor) voltage</i>	2.5 VDC
<i>Input (sensor) current</i>	≤ 63 μA
<i>Isolation from output</i>	750 VAC for 1 min
Outputs (1 per channel)	
<i>Relay electromechanical</i>	5A/250V w/ NO contact
<i>Solid state relay ⁽¹⁾</i>	1A/250VAC
<i>MOS gate ⁽¹⁾</i>	0.1A/60V, optically isolated
<i>Output for external SSR</i>	5...24 V, 30 mA
<i>Switching hysteresis</i>	≤ 0.01% of span
Indication	
<i>LEDs</i>	up to 2 red LEDs for output state, green LED for power ON

⁽¹⁾ Ask for availability!

Power supply	
<i>Isolated low voltage</i>	8...28 VAC/DC
<i>SMPS voltage ⁽¹⁾</i>	90...250 VAC/DC
<i>Isolation from input</i>	750 VAC for 1 min
<i>Consumption</i>	max. 2 VA
Operating conditions	
<i>Operating temperature</i>	-10...65 °C
<i>Operating humidity</i>	0...85 %RH
<i>Storage temperature</i>	-20...65 °C
<i>Storage humidity</i>	non-condensing, 0...95 %RH
Design and materials	
<i>Case material</i>	plastic
<i>Mounting</i>	on 35 mm DIN rail
<i>Wiring</i>	plug-in terminals
<i>Dimensions</i>	35x110x58 mm
<i>Weight</i>	max. 250 g
<i>Protection, front/terminals</i>	IP54 / IP20

Ordering code LCI2* - G1.G5 ⁽²⁾

Code	Feature or option	Code values
*	Variant	0 - single-channel, 2 - double-channel
G1	Power supply	C - 90...250 V ⁽¹⁾ , Q - 8...28 V, isolated
G5	Relay output	A - relay NO, D - SSR ⁽¹⁾ , J - for external SSR, M - isolated MOS gate ⁽¹⁾

⁽²⁾ G5G5 for variant '2'