

CLI22

Loop Powered High-accuracy Isolators for 0(4)-20 mA Signals



The loop-powered isolator, CLI22, is used for electrical isolation of 0(4)-20 mA signals to avoid measurement errors due to different voltage potentials or ground loops in an instrument installation.

CLI22 also contributes to a suppression of electrical interferences. Thanks to the high isolation level of 4 kV, the isolator also serves as an effective protection for downstream devices against impermissible high voltages. The isolator is available in a single channel version, CLI22S, and a dual channel version, CLI22D.

- Input/output 0(4)-20 mA with conversion ratio 1 to 1
- High level input / output isolation of 4000 VAC
- Loop powered (no external power needed)
- High accuracy and stability
- Calibrated and ready to use
- Maintenance free
- Rugged shock proof design
- DIN-rail mounting

Specifications:

Input	
Current	0(4)-20 mA
Input Voltage drop (U)	3 V plus output loop voltage drop (see diagram)
Maximum input voltage	15 V
Output	
Current	0(4)-20 mA, identical to input current
Maximum load	600 Ω
Operation temperature	
-25 to +70 °C / -13 to +158 °F	
Galvanic isolation	
Input / output	4 kV, 50 Hz
Accuracy	
Total accuracy	± 0.1 % of span @ 250 Ω load
Load influence	± 0.1 % of span / 100 Ω
Mounting	
Rail acc. to DIN EN 50022, 35 mm	

CLI22S Input connections



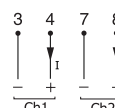
Output connections



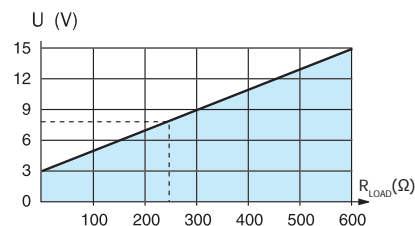
CLI22D Input connections



Output connections

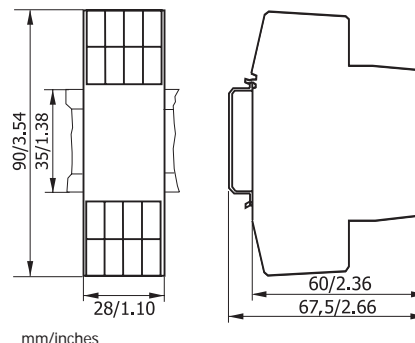


Voltage drop diagram



Voltage drop, U, relative to load, R_{LOAD}, at 20 mA current

Dimensions



Ordering information

CLI22S, 1-channel version	70CLI22S01
CLI22D, 2-channel version	70CLI22D01