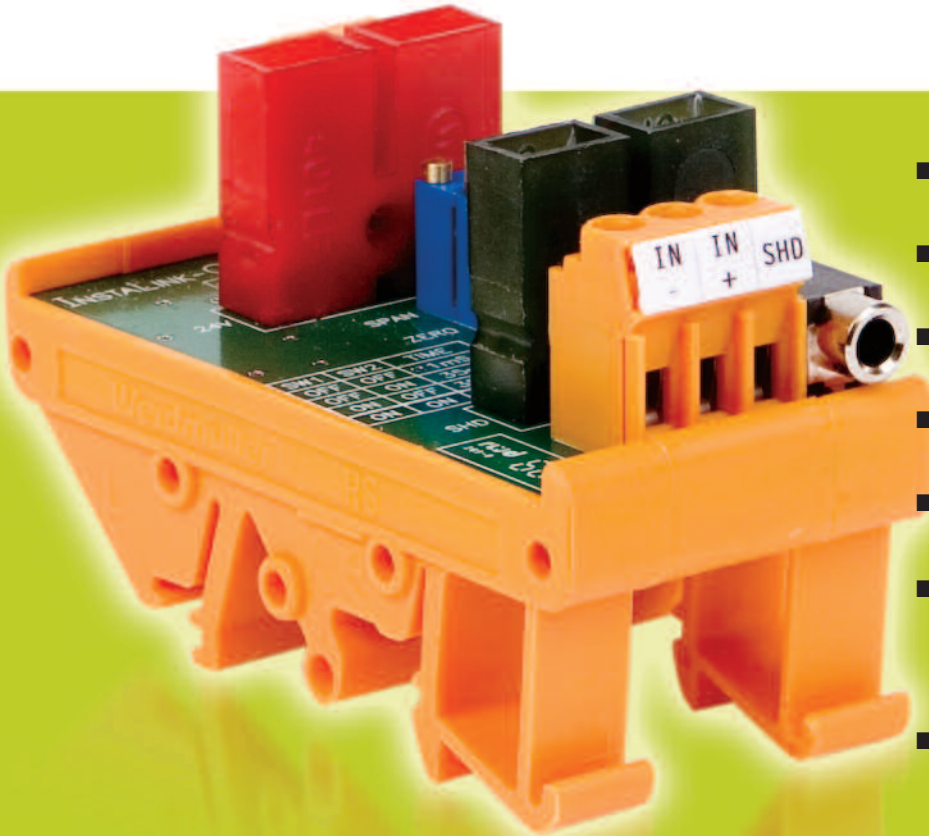


## InstaLink™-CLI 4-20mA Loop Isolator



- Eliminates ground loop caused by differential ground voltages
- Make-before-break test jack for temporary connection of a meter
- Loop powered (2 wire) input and output
- Termination for shield on input side
- Adjustable response time from 1ms to 400ms
- Plug-in jumpers for output loop supply and shield reduces installation time (jumpers included)
- Mounts on 32 and 35mm DIN rails

This module interfaces a field transmitter producing 4-20mA to a PLC or DCS input. Power to the field transmitter is provided by an external power supply. The InstaLink™-CLI provides up to 2.5KV of input-output isolation and also features overvoltage transient protection on the input. Unique features of the InstaLink™-CLI include the make-before-break connector and adjustable response time.

The make-before-break connector allows a meter to be inserted into the input loop and removed without causing a momentary interruption of the loop. This makes calibration very easy. A test cable is available.

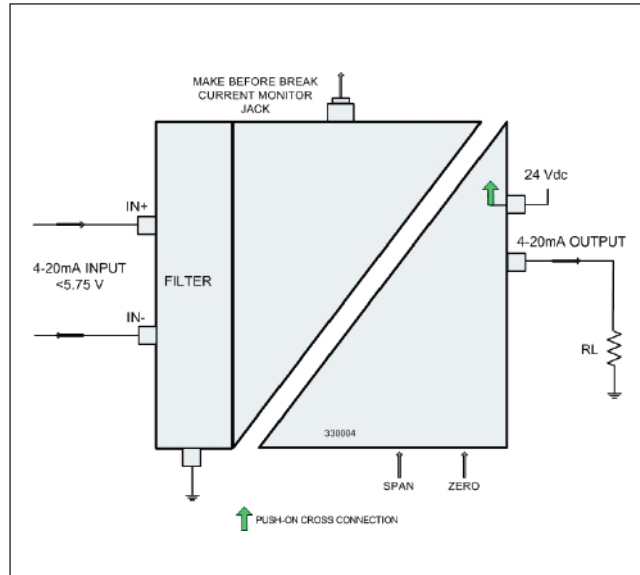
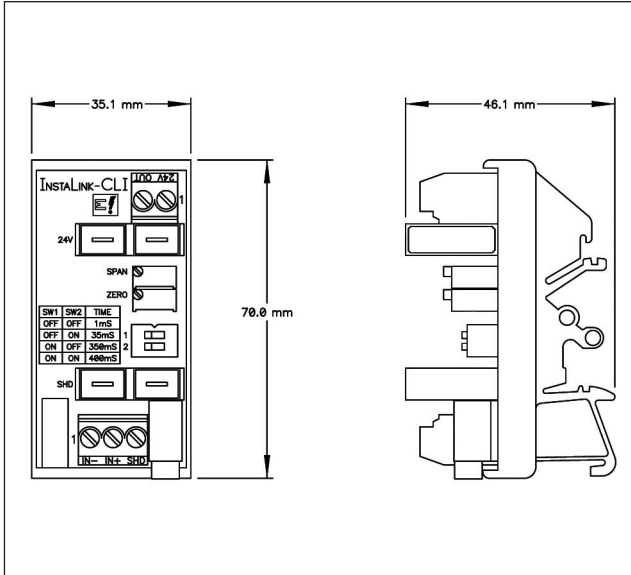
Adjustable response time allows the user to select one of four response times – 1ms, 35ms, 350ms or 400ms. In applications where fast response is required there are few isolators faster than the InstaLink™-CLI. If speed is not critical then the response time can be increased to allow the module to provide some filtering of the incoming signal. The response time can be adjusted quickly and easily via DIP switches.

Another key feature is the plug-in jumpering system for easy distribution of 24Vdc for the module's output loop (sourcing configuration) and the input (transmitter) cable shield. Jumpers included with each module.


If you are only concerned with ground loops consider Emphatec's InstaLink™-GLF as a possible lower cost solution. If you want economical optical isolation to eliminate ground loops and also to prevent overvoltage transients from reaching your PLC or DCS then the InstaLink™-CLI isolator is the solution.

### Ordering Information

|                 |               |
|-----------------|---------------|
| InstaLink™ -CLI | <b>330004</b> |
| Test Cable      | <b>330035</b> |



## SPECIFICATIONS

| InstaLink™ -CLI                       |                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b>                 | <b>330004</b>                                                                                       |
| <b>Input range:</b>                   | 4-20mA                                                                                              |
| <b>Input voltage drop:</b>            | $5.1\text{V} + (I_{in} \times 24.9\Omega) = 5.6\text{V} @ 20\text{mA}$                              |
| <b>Configuration:</b>                 | 2 wire, sinking or sourcing                                                                         |
| <b>Meter connection:</b>              | make-before-break jack (3.5mm phono)                                                                |
| <b>Output range:</b>                  | 4-20mA                                                                                              |
| <b>Output loop supply:</b>            | 18-30Vdc                                                                                            |
| <b>Output loop impedance:</b>         | 0-500 ohm @ 18Vdc supply<br>0-750 ohm @ 24Vdc supply                                                |
| <b>Accuracy:</b>                      | 0.1% typical @ 25°C, .5% typical over 0-50°C range.<br>1% typical over -20° to +70°C range          |
| <b>Response times:</b>                | 1, 35, 350 or 450mS (DIP switch selectable)                                                         |
| <b>Isolation:</b>                     | 2.5KV input-output                                                                                  |
| <b>Operating/storage temperature:</b> | -20° to +70° C                                                                                      |
| <b>Wire sizes:</b>                    | input: 26-12 AWG<br>output: 26-12 AWG<br>jumpers: 16-14 AWG, 0.187" push-on                         |
| <b>Dimensions:</b>                    | 35 x 70 x 43mm (requires 35mm of DIN rail)                                                          |
| <b>Mounting:</b>                      | 32 or 35mm DIN rails                                                                                |
| <b>Approvals:</b>                     |  LISTED, E256770 |
| <b>Additional jumpers:</b>            | 330114                                                                                              |