

Analogue Signal Conditioners

Isolators - 'Minicoupler' Range Compact

Weidmüller Klippon Products



H = 89, W = 10, D = 68

- Din Rail mounting, offer cost effective solution to isolation & signal conversion
- 1kV 3 port isolation - input, output to power
- Employ surface mount technology for reliability
- Ultra compact, 10mm wide

| | |
|-----------------------|----------------------|
| Linearity | ±0.05% of full scale |
| Accuracy | ±0.1% of full scale |
| Response time | 1mS (typ.) |
| Isolation | 1kV dc |
| Supply voltage range | 20-28V dc |
| Operating temperature | 0 to 55°C |
| Din Rail | TS232/TS35 |

| | | | | |
|-------------------------|---------|---------|---------|---------|
| Type | 767-270 | 767-281 | 767-293 | 767-300 |
| Input | I to I | I to V | V to I | V to V |
| Input resistance (typ.) | 4-20mA | 4-20mA | 0-10V | 0-10V |
| Maximum over-range | 50Ω | 50Ω | 500kΩ | 500kΩ |
| Output | 50mA | 30mA | 15V | 4-20mA |

Mfrs. List No. 980680 = 767-270, 980681 = 767-281, 980682 = 767-293, 980683 = 767-300

PLC157

| | Order Code | 1+ | 5+ | 10+ |
|------------------------|----------------|----|----|-----|
| 4-20mA/4-20mA Isolator | 767-270 | | | |
| 4-20mA/0-10V Isolator | 767-281 | | | |
| 0-10V/4-20mA Isolator | 767-293 | | | |
| 0-10V/0-10V Isolator | 767-300 | | | |

Power Supplies - DIN Rail Mounting 'Switch Mode'

Weidmüller Klippon Products



767-207
H = 90, W = 18, D = 102

767-323
H = 90, W = 45, D = 102

- Ideal to provide 24V dc to signal conditioners
- Switch mode enables high efficiency and wide ranging ac/dc inputs
- Over current shutdown with automatic restart plus thermal shutdown
- Units mount on TS32 and TS35 DIN rail

| | | |
|-------------------------|--|-------------|
| Type | 767-311 | 767-323 |
| Input voltage ac | 24V/0.5A | 24V/1A |
| Input voltage dc | 85 to 265V | 85 to 265V |
| Output | 120 to 300V | 120 to 300V |
| Max. ripple | 24Vdc/0.5A | 24Vdc/1.0A |
| Regulation - load | 0.1% | 0.2% |
| - line | 0.6% | 0.5% |
| Approvals/Certification | 0.2% | 0.2% |
| | EN55022 class B/CISPR22 class B | |
| | IEC801-2,3,4,5 level 3, CSA, CE marked | |

PLC159

| | Order Code | 1+ | 5+ | 10+ |
|--------------------------|----------------|----|----|-----|
| Switch mode PSU 24V/0.5A | 767-311 | | | |
| Switch mode PSU 24V/1A | 767-323 | | | |

'Ultra-SlimPak' — Field Configurable

Weidmüller Klippon Products



- For use in process, automation and instrumentation applications
- All modules accept a wide range of inputs and provide numerous output options
- All modules are user configurable via DIP switches and zero and span potentiometers
- ASIC technology employed for improved reliability
- 3 Port isolation of 1.8 kV between input, output and power supply
- Power requirement 9 to 30Vdc
- Suited to mounting on either TS32 ('G') or TS35 ('Tophat') DIN rail

Analogue Signal Isolators

- Eliminates ground loops, converts signal levels and provides signal drive
- Units available for voltage or current inputs. Both provide either voltage or current outputs.
- Zero and span ranges, both have 50% adjustability over the selected range
- Bipolar and reverse functions available

Analogue Trip Amplifier

- Units available for either dc voltage or current
- Provides relay contact closure at preset dc input signals
- Programmable setpoints, Hi or Lo, failsafe or non failsafe
- Equipped with two SPDT output relays, each controlled by setpoint/dead band operation
- Bipolar input accepted
- 24V dc transducer excitation available

Thermocouple Transmitter

- Provides an isolated linearised dc output in proportion to the thermocouple input
- Can be configured for over 60 different thermocouple temperature ranges
- Zero and span ranges both have 50% adjustability over selected range
- Cold junction compensation (CJC) employed
- Burnout detection available

| | Analogue Signal Isolator | Analogue Trip Amplifier | Thermocouple Transmitter |
|--------------------|---|--|---|
| Isolation | 1.8k V dc | 1.8k V dc | 1.8k V dc |
| Power | 9-30V dc | 9-30V dc | 9-30V dc |
| Temp range | 0° to 55°C | 0° to 55°C | 0° to 55°C |
| Inputs | 10mV to 100V dc 1mA to 100mA dc | 10mV to 200 V dc 1mA to 100mA dc | J, K, T, R, S, E, B Thermocouple |
| Dimensions (H W D) | 90 12.6 112.5 | 90 17.7 112.5 | 90 17.7 112.5 |
| Typical outputs | 0-5V, 0-10V dc 0-1mA, 0-20mA dc 4-20mA dc | 2 SPDT relays 5A, 120V, 2A, 240V ac 5A, 28V dc | 0-5V, 0-10V dc 0-1mA, 0-20mA dc 4-20mA dc |

WARNING DO NOT CHANGE SWITCH SETTINGS WITH POWER APPLIED

PLC115X

| | Mfrs. List No. | Order Code | 1+ | 5+ | 10+ |
|--------------------------|----------------|----------------|----|----|-----|
| Analogue Isolator Vin | 832766 | 767-207 | | | |
| Analogue Isolator lin | 832765 | 767-219 | | | |
| Trip Amplifier Vin | 828027 | 767-220 | | | |
| Trip Amplifier lin | 828020 | 767-232 | | | |
| Thermocouple Transmitter | 832767 | 767-268 | | | |

Process Signal Isolators



- High accuracy - 0.05%
- Compact size
- Front entry span and zero potentiometers
- CE approved
- Can be mounted on 35mm top hat DIN rail

Loop Powered Isolator (898-089)

- 4 - 20mA input, 4 - 20mA output
- 5V loop drop

Isolator (898-090)

- 4 - 20mA input, 4 - 20mA output
- 5V loop drop output
- Requires 24V dc power supply on output

4 - 20mA Isolating Signal Splitter (898-107)

- Provides two isolated 4 - 20mA output signals for one 4 - 20mA input
- Requires 24V dc power supply for input and outputs

| | 898-089 | 898-090 | 898-107 |
|-------------------|--------------------------|------------------------|--------------------------|
| Input | 4-20mA | 4-20mA | 4-20mA |
| Output(s) | 4-20mA | 4-20mA | 4-20mA 2 |
| Power Requirement | - | Output | Input & Output |
| Dimensions | H = 60, W = 12.5, D = 60 | H = 60, W = 21, D = 60 | H = 75, W = 12.5, D = 60 |

PLC161

| | Mfrs. List No. | Order Code | 1+ | 5+ | 10+ |
|----------------------------------|----------------|----------------|----|----|-----|
| Loop Powered Isolator | SEM1000 | 898-089 | | | |
| Isolator | SEM1010 | 898-090 | | | |
| 4-20mA Isolating Signal Splitter | SEM1200 | 898-107 | | | |