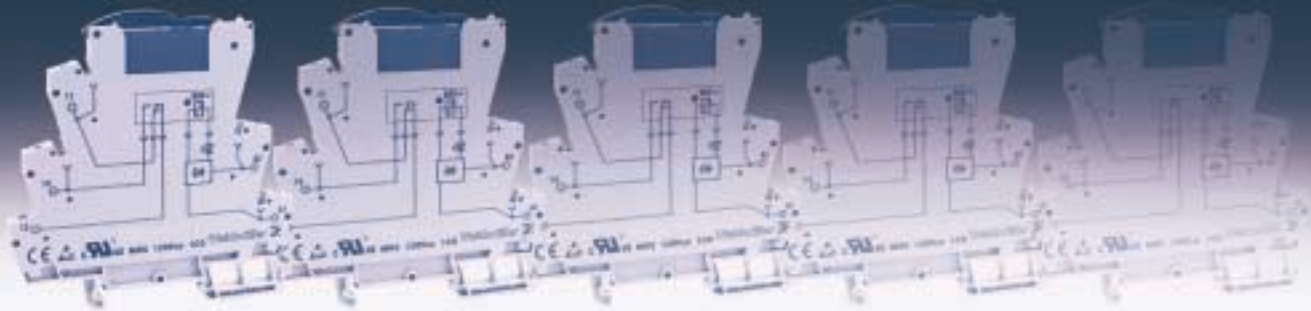


CLASS 1 DIVISION 2 PRODUCTS CLASS 1 DIVISION 2 PRODUCTS

UPDATED



PRODUCT INFORMATION

When good enough just isn't good enough

Weidmüller 

Class 1 Division 2 Products

Non-Incendive Barriers

Two non-incendive barriers are available - one for 24Vdc discrete signals and another for 4-20mA analog signals. Both modules limit the current in a circuit in the event of a fault. The 4-20mA version provides a 24Vdc signal to indicate it is in fault mode. By rating a circuit non-incendive it is possible to use non-explosion proof devices in Class 1 Division 2 applications.

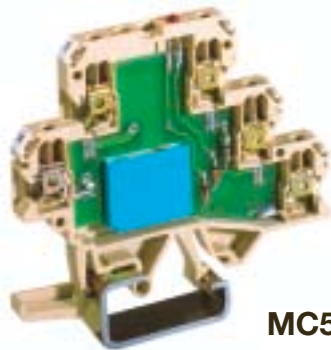
Catalog Number

Discrete **9916290000** Groups A,B,C,D; T3A

Analog **9918010000** Groups A,B,C,D



MRS/Z



MC5R

Optocoupler Module

The MPI-Opto module provides 2 isolated outputs making it ideal for interfacing a single field device such as a flowmeter to two inputs such as a local display and a PLC input. It is suitable for use with 5V and 12-24V signals and has a switching frequency up to 50KHz. Other features include inverted outputs and compact packaging. Certified for groups A, B, C, D and temperature code T4A.

Catalog Number

9916080000



Relay Modules

Weidmüller now offers a total of 7 electromechanical relays approved for Class 1 Division 2 applications. One is a compact unit with a soldered relay while the others offer a socket mounted relay. The MRS and MRZ versions mount on 35mm DIN rail while the MC5R version is the smallest and mounts on both 32mm and 35mm DIN rails. MRS versions use screw clamp terminations while the MRZ use tension clamps. All versions are just 6mm wide.

MC5R: Groups A, B, C, D.

MRS/Z: Groups A, B, C, D, temperature code T6.

Type	Cat. Number	Input	Output
MC5R	7901540000	12/24Vdc	250V, 4A form A output
MRS	7940004779	12Vdc	250V, 6A
MRZ	7940004780	12Vdc	250V, 6A
MRS	7940004781	24Vdc	250V, 6A
MRZ	7940004782	24Vdc	250V, 6A
MRS	7940004783	120Vac	250V, 6A
MRZ	7940004784	120Vac	250V, 6A

Class 1 Division 2 Products

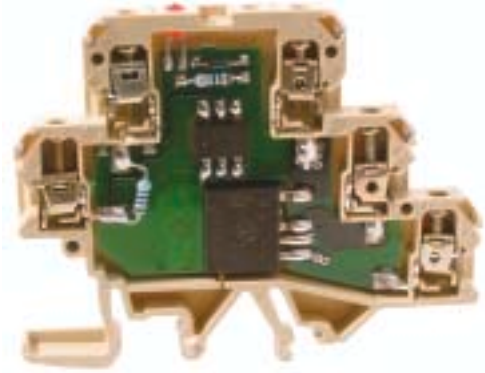
Solid State Relay / Solenoid Driver

The picoPak MC50 is designed for controlling 24Vdc solenoids. The output is rated 5-34Vdc @ 10A resistive or 6A inductive. The control input is 24Vdc. A low on-state resistance (less than 10m Ω) minimizes power dissipation.

The MC50 is just 6mm wide and mounts on both 32mm and 35mm DIN rails. Certified for groups A, B, C, and D.

Catalog Number

7901690001



picoPak I/I 4-20mA Isolator

This module provides 2000V of isolation for 4-20mA current loops. Both the input and output are loop powered. The isolation is optical so the output loop impedance does not affect the input. The response time is 5ms typical.

The picoPak I/I is 8mm wide (9.5mm with optional end plate) and mounts on both 32mm and 35mm DIN rails. Certified for groups A, B, C, and D.

Catalog Number

9908800000

WaveAnalog CCC Loop Powered Isolator

These modules provide isolation for 4-20mA current loops. They are transformer coupled so the input loop powers the output loop. The voltage drop across the input varies depending on the output load (maximum 500 Ω). One and two channel versions are available and each is available with screw clamp (WAS) or tension clamp (WAZ) connectors. Response time is very fast (just 4.5ms) and the modules are UL recognized, CSA certified, GL approved as well as CSA Class 1 Division 2, groups A, B, C, D, temperature code T5 certified.

Type

WAS CCC LP 1 channel
WAZ CCC LP 1 channel
WAS CCC LP 2 channels
WAS CCC LP 2 channels

Catalog Number

8444950000C1D2
8444960000C1D2
8463580000C1D2
8463590000C1D2



Class 1 Division 2 Products

WavePro RTD

The WavePro RTD module is a 3 port isolated, switch configurable PT100 or Ni100 RTD signal conditioner. One module can be configured for hundreds of temperature ranges, 2, 3 or 4 wire sensors, 3 output ranges and 2 response times. It can also be used with 2 wire resistive sensors and potentiometers. No span and zero calibration is required when switching between standard ranges and RTD types. Access to the configuration switches is easy and DC power can be supplied to the modules via cross connections so a group of modules can be powered simply by inserting plug-in jumpers - there's no need to daisy-chain wiring. The plug-and-socket connectors are available with either screw clamp (WAS) or tension clamp (WAZ) terminations. Certified for groups A, B, C and D, temperature code T6.

Type	Catalog Number
WAS WavePro RTD	8560700000C1D2
WAZ WavePro RTD	8560710000C1D2



WavePro Thermo

The WavePro Thermo is the only thermocouple module you will need. Hundreds of temperature ranges, 8 thermocouple types, 3 output ranges and 2 response times can be selected via DIP switches. Switching between standard ranges does not require span and zero adjustments. The module is 3 port isolated and provides cold junction compensation and linearization. Powering can be via plug-in cross connections and the plug-and-socket connectors are available with screw clamp (WAS) and tension clamp (WAZ) terminations. Certified for groups A, B, C and D, temperature code T6.

Type	Catalog Number
WAS WavePro Thermo	8560720000C1D2
WAZ WavePro Thermo	8560730000C1D2



WavePak Loop Splitter

The WavePak Loop Splitter provides one 4-20mA input and two isolated 4-20mA outputs. It was designed for applications where a transmitter is to be interfaced to two devices such as a local indicator or totalizer and a PLC or DCS analog input. Isolation is optical so the output loop impedance does not effect the input loop. Input and outputs are loop powered. The isolation is 1000V between input and output and between outputs. The housing is 12,5mm wide and the connections are plug-and-socket. Access to span and zero potentiometers is via the hinged cover on the top of the modules. Certified for groups A, B, C and D, temperature code T6.

Catalog Number
7920400000





CP-SNT 24W

This compact switchmode power supply provides 24Vdc @ 1A or 12Vdc @ 1.5A. The input is 120/230Vac. The housing requires 50mm of 35mm DIN rail. High efficiency minimizes power dissipation. Certified for groups A, B, C, D; temperature code T4A.

Output
12Vdc @ 1.5A
24Vdc @ 1A

Catalog Number
9928890012
9928890024

CP-SNT 55W

This power supply provides 24Vdc @ 1A or 12Vdc @ 3A. The input is 120/230Vac. The rugged aluminum housing mounts on 35mm DIN rail or can be direct mounted with optional mounting brackets. Connections are plug-and-socket. Certified for groups A, B, C, D; temperature code T4A.

Output
12Vdc @ 3A
24Vdc @ 2.3A

Catalog Number
9927480012
9927480024



CP-SNT 160W

The CP-SNT 160W delivers 24Vdc @ 6.5A. The input is 120/230Vac. Connections are plug-and-socket and there is a 1 form C (SPDT) fault relay. Other features include adjustable output voltage (24-28Vdc) and parallel operation for load sharing or redundancy. Mounting is on 35mm DIN rail or direct mounted using optional mounting brackets. Certified for groups A, B, C, D; temperature code T4A.

Output
24Vdc @ 6.5A

Catalog Number
9925340024



CP-DCDC 50W

This family of DC/DC converters is compact, uses plug-and-socket connectors, and can be mounted on 35mm DIN rail or direct mounted using optional mounting brackets. Certified for groups A, B, C, D; temperature code T4A.

Output
24Vdc @ 2A
15Vdc @ 3A
12Vdc @ 3A
5Vdc @ 8A

12Vdc in
9919371224
9919371215
9919271212
9919371205

24Vdc in
9919372424
9919372415
9919372412
9919372405



Battery Backed-Up Power Supply



The ConnectPower® BBU combines with one of our Class 1 Division 2 power supplies and customer supplied batteries to form a scalable DC UPS system. This enables you to put together a UPS system uniquely tailored to your application. Modules are available for both 12Vdc and 24Vdc.

This full featured unit has all the diagnostics needed for applications where it is critical to know the status of the power system.

- 12 and 24Vdc versions available
- Universal AC input
- 3A charge current on 12Vdc unit
- 2A charge current on 24Vdc unit
- 15A max load current
- Form C relay output for fault and battery status
- Inputs for Drain Cycle Activation, Drain Reset and Enable
- LED's for Battery Open, Battery Low, Battery Reverse Polarity, AC Fault and Charge State (Charging or Full Charge)

The BBU is CSA certified for Class 1 Division 2 groups A, B, C, D, temperature code T4A. It is also CE approved and UL is pending.

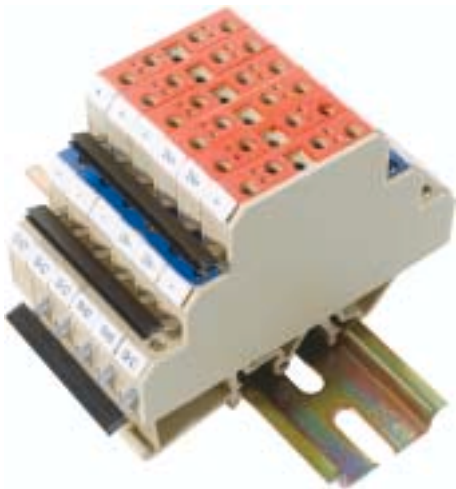
A full range of accessory products is available including a DIN rail or panel mounted battery chassis that accepts one or two industry standard sealed batteries.

A complete data sheet is available.

Voltage	Cat. Number
12Vdc	991628 0012
24Vdc	991628 0024

Make-Before-Break Terminals for 4-20mA Loops

Weidmuller offers three terminals specifically designed to allow a current meter to be non-intrusively inserted into a 4-20mA loop. The make-before-break connector allows the meter to be inserted into and removed from the loop without causing a momentary interruption in the loop. The basic KDKS1-MBB version provides a single feedthrough connection while the MC6-MBB provides terminations for both legs of the loop and a shield. The MC6-INS version provides power and signal distribution.



Foundation Fieldbus Interface Modules

Weidmuller offers a selection of interface modules specifically for Foundation Fieldbus applications. These include terminals for network connections, surge protection, line terminations and a current limiter that prevents a fault in one device from causing an entire network to shut down. Each product is just 8mm wide.

Delta V DCS Interface Modules

Weidmuller has designed several interface modules for use as field terminations for Delta V I/O. These include a 16 channel relay module, a 16 channel 120V-to-24Vdc optocoupler module, and a universal I/O module for use with digital and analog signals. All the modules include Weidmuller's unique B2L/S2L cable connector for the interface cable between the modules and the I/O cards. The B2L/S2L is a high-density connector that accepts wires up to 18 AWG and only a screwdriver is required to terminate them. This is a truly industrial connector that is easy to work with yet compact.



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Czech Republic
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Finland
France
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Hong Kong
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Mexico

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Weidmüller is the leading manufacturer of components for electrical connection technology.

We develop, produce and sell a wide spectrum of products from terminal blocks through connectors to relay sockets and I/O sockets for every type of application.

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This publication is subject to technical changes.