WMF 2.5
Multi-Functional Terminal Block Series
For DCS Marshalling
A Better Way to Marshal for DCS Applications

For reliable and safe marshalling in modern Distributed Control Systems (DCS), modular terminal blocks are still the first choice, especially for very large and complex systems. Terminal blocks offer good value and availability because they are easy to use and provide a high level of design flexibility. Plus, terminal blocks with screw connections are well-known world wide in the Process Industry as the most common and reliable interface for the connection of signals to and from the field.

Reduce Your Total Cost of Ownership

Weidmüller’s innovative new terminal block series, the WMF 2.5 (Weidmüller Multi-Functional), is specifically designed for the challenging demands of DCS marshalling applications—notably to simplify wiring, reduce required cabinet space, increase functionality, and expand wire routing and signal distribution capabilities. These space-saving terminal blocks provide a cost saving and flexible solution for routing and distributing signals by combining all the necessary functionality into a single solution.

The WMF 2.5 series offers an uncomplicated and reliable connection that ensures one of the best possible solutions for signal termination in the process and power generation industries.

Features that Deliver Optimum Flexibility

- **2 Blocks - Multiple Options**
  - Feed through, fuse and disconnect

- **3 Cross Connections**
  - Three pluggable center channels
  - Ideal for commoning potentials

- **Innovative Fusing**
  - Blown fuse indication (LED) with low leakage rating (0.5mA)
  - Provides quick disconnect

- **Pluggable Connections**
  - Pre-assembled cables possible
  - 87% wiring time savings

- **Small Form Factor**
  - Up to 55% space savings with 5mm width

- **Ground Shield Attachment Point**
  - With integrated ground connection
  - No ground block required
Traditional Cabinet Marshalling for 96 Signal Loops

- Contact Wire to FTA:
  - Go to wire length
  - Strip wire
  - Connect wire
  - Needed time: ~ 30 seconds
- Run Wire:
  - Place cable in wire duct
  - Label cable
  - Needed time: ~ 60 seconds
- Terminal Block:
  - Contact Wire to Terminal Block
  - Strip wire
  - Connect wire
  - Run wire:
  - Place cable in wire duct
  - Label cable
  - Needed time: ~ 60 seconds
- Terminal Blocks
  - 288 terminal blocks per signal loop = 96 signal loops on 6 I/O modules/FTA

Wire Ducts
- DIN-rail
- I/O module or Field Terminal blocks and I/O module or FTA between internal side of terminal block and PE block for the shield connection

Space Calculation for Marshalling Wiring:
- (Average marshalling panel with 96 signal loops on each):
  - 8-pole plugs
  - 192 wires x 2½ minutes = 480 minutes
- Terminal Blocks
  - 96 signal loops on 2¼ in. on DIN-rail

Advantages:
- Minimize wire leg boxes with pre-assembled cables and plugs
- Reduced complexity with one-terminal design (WMF 2.5)

Why Get Better Connected with Weidmuller
WMF 2.5 Multi-Functional Terminal Blocks?

From start to finish, the WMF 2.5 series provides a flexible and efficient DCS marshalling solution. The savings in wiring time is significant—up to 87% in some cases. Add to that a 20-30% reduction in suitable DIN-rail space, and the potential total cost savings over traditional marshalling solutions will have a positive impact on your bottom line.

Availability

- The following order numbers are available from stock:
- To order, contact your local Weidmuller distributor.

Cabinet Marshalling Using WMF 2.5 Terminals

- Contact Cable to FTA
  - Go to wire length
  - Strip wire
  - Connect wire
  - Needed time: ~ 30 seconds
- Run Wire:
  - Place cable in wire duct
  - Label cable
  - Needed time: ~ 60 seconds
- Terminal Blocks
  - Contact Wire to Terminal Blocks
  - Just plug it in
  - Label cable
  - Needed time: ~ 60 seconds
- Time Calculation for Marshalling Wiring:
  - 2½ minutes per foot cable
  - 24 connections x 2½ minutes = 1 hour
- Space Calculation for Marshalling Wiring:
  - 3½ minutes per foot cable
  - 102 wires x 3½ minutes = 366 minutes

Advantages:
- Minimize wire leg boxes with pre-assembled cables and plugs
- Reduced complexity with one-terminal design (WMF 2.5)

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- Wire Ducts
  - DIN-rail
  - I/O module or Field Terminal blocks and I/O module or FTA between internal side of terminal block and PE block for the shield connection

- Terminal Blocks
  - 288 terminal blocks per signal loop = 96 signal loops on 6 I/O modules/FTA

87% Faster to Wire! 55% Space Savings! 33% Fewer Blocks!

960mm (38.0 in.) on DIN-rail

2½ minutes per wire
- ~ 8 hours to wire

2½ minutes per wire
- ~ 1 hour to wire
Traditional Cabinet Marshalling for 96 Signal Loops

1. Connection to FTA:
   - Get wire to length
   - Strip wire
   - Connect wire
   - Needed time: ~120 seconds

2. Run Wire:
   - Place cable in wire duct
   - Label cable
   - Strip wire
   - Cut wire to length
   - Connect wire
   - Label cable
   - Place cable in wire duct
   - Needed time: ~60 seconds

Space Calculation for Marshalling Wiring:
- 2½ minutes per wire
- 24 connections x 2½ minutes = 1 hour
- 96 connections x 2½ minutes = 4 hours

Advantages:
- Reduced cost and complexity due to one terminal block connection
- Faster marshalling due to wide variety of terminal blocks per signal loop
- Fewer terminal blocks per signal loop = 288 terminal blocks required
- 2½ minutes per wire
- 96 x 2 wires = 192 wires

Why Get Better Connected with Weidmüller WMF 2.5 Multi-Functional Terminal Blocks?

From start to finish, the WMF 2.5 series provides a flexible and efficient DC5 marshalling solution. The savings in wiring time is significant—up to 87% in some cases. Add to that a 35% reduction in valuable DIN-rail space, and you get total cost savings over traditional marshalling solutions that will have a positive impact on your bottom line.

Traditional Marshalling Wiring:
- 8-hour marshalling time
- 96 signal loops
- 2½ minutes per wire
- 960 mm (38 inches) on DIN-rail
- 30-70 Volt SW

Advantages:
- Faster marshalling due to wide variety of terminal blocks per signal loop
- Fewer terminal blocks per signal loop = 288 terminal blocks required
- 2½ minutes per wire
- 96 x 2 wires = 192 wires

Availability

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Cost Savings:
- Reduced wiring costs
- Reduced complexity with one terminal block design (WMF 2.5)
- Minimizes wiring failures with pre-assembled cables and plugs
- Utilizes 960 mm (38.0 in) on DIN-rail

Why Get Better Connected with Weidmüller WMF 2.5 Multi-Functional Terminal Blocks?

From start to finish, the WMF 2.5 series provides a flexible and efficient DC5 marshalling solution. The savings in wiring time is significant—up to 87% in some cases. Add to that a 35% reduction in valuable DIN-rail space, and you get total cost savings over traditional marshalling solutions that will have a positive impact on your bottom line.

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Accessories

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*Set for screwing the connector to the terminal strip  
**Plastic lever to secure the connector on the terminal block against possible pull out

†Fuse levers for fuse or disconnect terminal blocks
WMF 2.5 Series is designed to optimize marshalling in the following DCS Systems:

**ABB**
- System 800xA
- Freelance
- Compact 800

**Emerson**
- DeltaV™
- DeltaV™ SIS
- Ovation™
- WDPF™

**Honeywell**
- Mark™ Vle DCS Control Solutions
- OC 4000™ Control System
- OC 6000e DCS Control System

**Invensys Controls**
- Foxboro®
- Triconex®

**Rockwell Automation**
- ProcessLogix

**Siemens**
- PCS7
- TELEPERM
- SPPA T1000/2000/3000

**Yokogawa**
- CENTUM® -V
- CENTUM® -XL
- CENTUM® -µXL
- CENTUM® CS 300R3
- CENTUM® CS

The Weidmuller WMF 2.5 Series will save installation time and space with any marshalling system, including upgrade and retrofit applications.

All names and brands are property of their respective holders.

Weidmuller is the leading manufacturer of components for electrical connection technology to transmit energy, signals and data. The Weidmuller product portfolio ranges from terminal blocks, PCB connectors and terminals, protected components, Industrial Ethernet components, I/O components and relay sockets to power supplies and over-voltage protection modules suitable for all applications. Assemble Services, marking solutions with a variety of tools and software systems, round off the range. As an OEM supplier, the company sets global standards in the field of electrical connection technology.

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Facsimile: 01 222 2686219
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Website: www.weidmuller.com

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