

**PRO DM  
PRO DM 10**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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www.weidmueller.com



Use our diode and redundancy modules to connect two power supplies and compensate for a device failing. In addition, our capacity module offers power reserves, guaranteeing purposeful and quick triggering of a circuit breaker, for example.

**General ordering data**

Type	PRO DM 10
Order No.	<a href="#">2486070000</a>
Version	Diode module, 24 V DC
GTIN (EAN)	4050118496772
Qty.	1 Stück

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## Technische Daten

### Dimensions and weights

Width	32 mm	Width (inches)	1.26 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	125 mm	Depth (inches)	4.921 inch
Net weight	518 g		

### Temperatures

Humidity	5-95% relative humidity, T <sub>u</sub> = 40°C, without condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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### Input

Connection system	Screw connection	DC input voltage range	0...60 V DC
Input current	2 × 12 A (-40 °C ~ +45 °C), 2 × 10 A (+45 °C ~ +60 °C), 2 × 7.5 A (+70 °C)	Input fuse (internal)	No
Rated input voltage	24 V DC		

### Output

Connection system	Screw connection	Continuous output current @ U <sub>Nominal</sub>	1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)
Protection against inverse voltage	Yes	Rated output voltage	V <sub>INPUT-typ.</sub> 0.7 V
Residual ripple, breaking spikes	Dependent on the power supplies used		

### General data

Degree of efficiency	> 97% @ 24 V Input voltage	Derating	> 60°C / 75% load @ 70°C
Housing version	Metal, corrosion resistant	Humidity	5-95% relative humidity, T <sub>u</sub> = 40°C, without condensation
MTBF	> 150,000 h in accordance with MIL-HDBK-217 (40°C, Bellcore), > 750,000 h in accordance with IEC 61709 (40°C, SN29500)	Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Operating temperature	-40 °C...70 °C	Protection degree	IP20
Surge voltage category	III		

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### EMC / shock / vibration

Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail)	Interference immunity test acc. to	EN 55022, EN 55024, EN 61000-3-2,-3, EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted)
Shock resistance IEC 60068-2-27	30 g in all directions		

### Insulation coordination

Insulation voltage input / earth	0.5 kV	Insulation voltage output / earth	0.5 kV
Pollution severity	2	Protection class	III, with no ground connection, for SELV
Surge voltage category	III		

### Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410	Safety extra-low voltage	SELV according to EN 60950, PELV according to EN 60204

### Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.22 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>	Connection system	Screw connection
Number of terminals	4 (1+, 2+, 1-, 2-)	Screwdriver blade	0.8 x 4.0, PZ 1
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	4 mm <sup>2</sup>		

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	6 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.22 mm <sup>2</sup>
Conductor cross-section, rigid , max.	6 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>
Connection system	Screw connection	Number of terminals	4 (++ / -)
Screwdriver blade	0.8 x 4.0, PZ 1	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

### Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01
eClass 10.0	27-04-07-01		

### Approvals

ROHS	Conform
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**Technische Daten****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instructions</a>

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