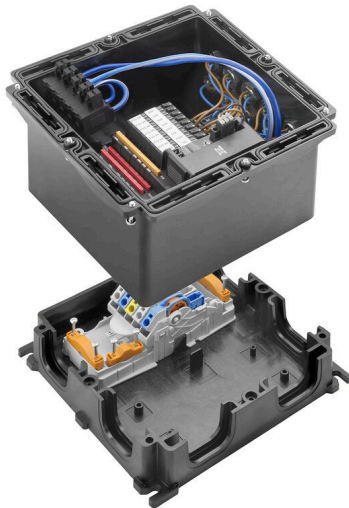


FP TGD 8X4A 2P A IOL

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com



NEC
Class 2

The electronic load monitoring system topGUARD is integrated in the outlet boxes. The loads that can be connected via M12 connectors are thus individually monitored and switched off if necessary.

General ordering data

Version	FieldPower® electronic load monitoring, IP65, in complete state, 4 A, M12 A-coded (power), M12 A-coded (IO-Link)
Order No.	2743480000
Type	FP TGD 8X4A 2P A IOL
GTIN (EAN)	4064675061045
Qty.	1 items
Delivery status	Discontinued

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	155 mm	Depth (inches)	6.1024 inch
Height	196 mm	Height (inches)	7.7165 inch
Width	196 mm	Width (inches)	7.7165 inch
Net weight	1769 g		

Temperatures

Storage temperature	-10 °C...60 °C	Operating temperature	-20 °C...45 °C
Operating temperature range	-25...50 °C	Humidity	35...85%, non condensing and non freezing

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1, Terphenyl, hydrogenated 61788-32-7, 4,4'-isopropylidenediphenol 80-05-7, Potassium perfluorobutane sulfonate 29420-49-3
SCIP	4fbedcbe-7ffa-4e3c-856c-9cb6aea05730

Input

Rated input voltage	24 V DC	Input voltage, max.	30 V
Input voltage, min.	18 V	Wire connection method	Insulation displacement connection (IDC), PUSH IN
Surge protection	Suppressor diode	Input fuse (internal)	No
DC input voltage range	18...30 V DC		

Output

Wire connection method	Insulation displacement connection (IDC), PUSH IN	Surge protection	Suppressor diode
Capacitive load	4.700 µF	Adjustable rated current	Yes
Rated current (per channel)	4 A	Triggering characteristic	see characteristic curve

General data

Installation advice	Lid screws included	Humidity	35...85%, non condensing and non freezing
Standards	not UL approved	Protection degree	IP65, in complete state
Surge voltage category	III		

Insulation coordination

Surge voltage category	III
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Technical data

Input

Surge protection	Suppressor diode	DC input voltage range	18...30 V DC
Rated input voltage	24 V DC	Input fuse (internal)	No

Output

Capacitive load	4.700 µF	Adjustable rated current	Yes
Rated current (per channel)	4 A	Triggering characteristic	see characteristic curve

Clamping capacity

Connection data - contact element Branch / Feed-in	Wire connection method	PUSH IN		
	Blade size of operating tool	0.6 x 3.5 mm		
	Stripping length	14.00 mm		
	Number of poles	5		
	Conductor connection cross-section, solid, max.	6 mm ²		
	Conductor connection cross-section, solid, min.	0.50 mm ²		
	Conductor connection cross-section, stranded, max.	6.00 mm ²		
	Conductor connection cross-section, stranded, min.	0.50 mm ²		
	Conductor connection cross-section, finely stranded, max.	10.00 mm ²		
	Conductor connection cross-section, finely stranded, min.	0.50 mm ²		
	Conductor connection cross-section, finest stranded, max.	6.00 mm ²		
	Conductor connection cross-section, finest stranded, min.	0.50 mm ²		
	Conductor connection cross-section with wire end ferrule	Type of wire end ferrule	12 mm with plastic collar	
		Standard	DIN 46228/1	
		Cross-section, min.	0.5 mm ²	
		Cross-section, max.	6 mm ²	
		Type of wire end ferrule	12 mm with plastic collar	
		Standard	DIN 46228/4	
		Cross-section, min.	0.5 mm ²	
		Cross-section, max.	6 mm ²	
Type of wire end ferrule		8 mm with plastic collar		
Standard		DIN 46228/1		
Cross-section, min.		0.5 mm ²		
Cross-section, max.		6 mm ²		
Type of wire end ferrule	8 mm with plastic collar			
Standard	DIN 46228/4			
Cross-section, min.	0.5 mm ²			
Cross-section, max.	6 mm ²			
Type of wire end ferrule	Twin wire-end ferrules			
Cross-section, min.	0.5 mm ²			
Cross-section, max.	6 mm ²			
Connection data - contact element power bus	Wire connection method	Insulation displacement connection (IDC)		
	Blade size of operating tool	0.6 x 3.5 mm		
	Number of poles	5		
	Conductor connection cross-section, solid, max.	6 mm ²		
	Conductor connection cross-section, solid, min.	1.50 mm ²		

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Technical data

Conductor connection cross-section, stranded, max.	6.00 mm ²
Conductor connection cross-section, stranded, min.	2.50 mm ²
Conductor connection cross-section, finely stranded, max.	6.00 mm ²
Conductor connection cross-section, finely stranded, min.	2.50 mm ²
Conductor connection cross-section, finest stranded, max.	6.00 mm ²
Conductor connection cross-section, finest stranded, min.	2.50 mm ²

Rated data acc. to IEC

Rated data acc. to IEC for plug-in connector		
Voltage type	DC	
Standard	IEC 60947-7-1, IEC 60947-7-2, IEC 61984	
Rated voltage	690 V	
Rated impulse withstand voltage	8.00 kV	
Rated current (3 loaded poles)	32 A	
Rated current (4 loaded poles)	25 A	
Rated data acc. to IEC for contact element		
Voltage type	DC	
Standard	IEC 60947-7-1, IEC 60947-7-2	
Rated voltage	800 V	
Rated impulse withstand voltage	8.00 kV	
Rated current (3 loaded poles)	41 A	
Rated current (4 loaded poles)	25 A	

Rated data acc. to UL

Standards		
not UL approved		
Rated data acc. to UL for contact element		
Standard	UL 1059	
Note	for use with UL-listed TC-ER cables	
Conductor connection cross-section, AWG, max.	AWG 10	
Conductor connection cross-section, AWG, min.	AWG 14	
Rated voltage	600 V	
Rated current	30 A	
Rated data acc. to UL for plug-in connector		
Standard	UL 1059	
Note	for use with UL-listed TC-ER cables	
Conductor connection cross-section, AWG, max.	AWG 12	
Conductor connection cross-section, AWG, min.	AWG 16	
Rated voltage	600 V	
Rated current	20 A	

Classifications

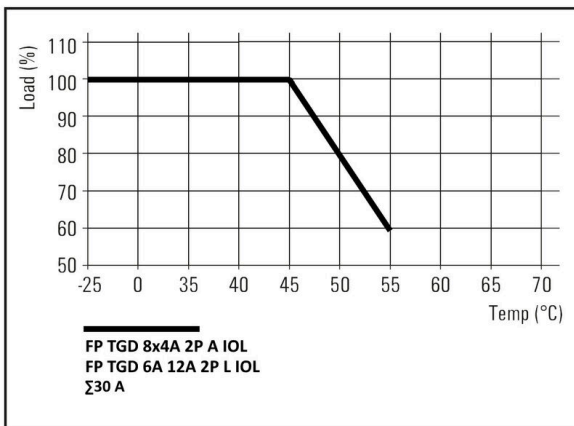
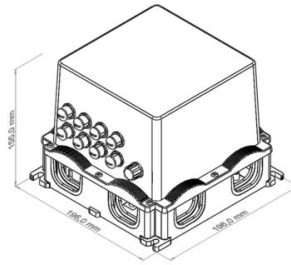
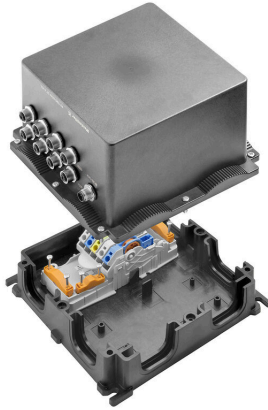
ETIM 8.0	EC003538	ETIM 9.0	EC003538
ETIM 10.0	EC003538	ECLASS 14.0	27-37-10-16
ECLASS 15.0	27-37-10-16		

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Drawings

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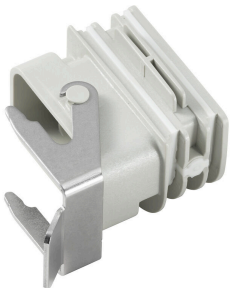
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Accessories

Adapters

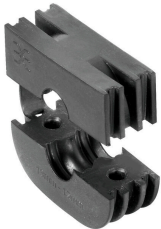


HQ adapter for FieldPower®
 Tool-free installation like a FieldPower cable seal
 Suitable for the HQ 4/2, HQ 8 and HQ 17 plug-in connector inserts
 Optionally with lockable protective cover (protection against being switched on again, in accordance with EN 60204-1)

General ordering data

Type	BG ARGH HQP ALU PT6	Version
Order No.	1532200000	Adapter, Field Power® sealing insert, HQ adapter, IP65, with corresponding enclosure, Polycarbonate, glass fibre reinforced,
GTIN (EAN)	4050118337433	lockable: No
Qty.	1 ST	
Type	BG ARGH HQP ALU PT6 CS	Version
Order No.	1532210000	Adapter, Field Power® sealing insert, HQ adapter, IP65, with corresponding enclosure, Polycarbonate, glass fibre reinforced,
GTIN (EAN)	4050118337600	lockable: Yes
Qty.	1 ST	

Seals



Intelligent cabling solutions can save you valuable time and money.
 The FieldPower® modular system contains the right solution for every cabling task.
 Foldable seals for the use of pre-assembled cables
 Seals available with M16 and M20 connection thread
 Integration of operating and signalling devices into the seal possible

General ordering data

Type	RKDG 2XD8.5 WG PT6	Version
Order No.	1114530000	Field Power® sealing insert, Seal, IP54, with corresponding enclosure, EPDM
GTIN (EAN)	4032248892624	
Qty.	10 ST	
Type	DG M16 PT6	Version
Order No.	2545540000	Field Power® sealing insert, Seal with connection thread, IP65, with corresponding enclosure, EPDM
GTIN (EAN)	4050118555523	
Qty.	1 ST	
Type	DG D0 PT6	Version
Order No.	4323240000	Field Power® sealing insert, Blank seal, IP65, with corresponding enclosure, EPDM
GTIN (EAN)	4032248641246	
Qty.	10 ST	
Type	DG M20 PT6	Version
Order No.	2545550000	Field Power® sealing insert, Seal with connection thread, IP65, with corresponding enclosure, EPDM
GTIN (EAN)	4050118555530	
Qty.	1 ST	

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Accessories

Type	RKDG D11 PT6	Version
Order No.	4323210000	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641215	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D13 PT6	Version
Order No.	4323230000	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641239	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D15 PT6	Version
Order No.	4323220000	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641222	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D17 PT6	Version
Order No.	4324010000	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641284	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D9 PT6	Version
Order No.	4329610000	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248668687	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	

Tools



Sheathing stripper for PVC cables

General ordering data

Type	AM 25	Version
Order No.	9001540000	Tools, Sheathing strippers
GTIN (EAN)	4008190138271	
Qty.	1 ST	
Type	AM 16	Version
Order No.	9204190000	Tools, Sheathing strippers
GTIN (EAN)	4032248608133	
Qty.	1 ST	

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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.6X3.5X100	Version	
Order No.	2749340000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	
GTIN (EAN)	4050118895568		
Qty.	1 ST		

IP68 version



In addition to the extensive range of enclosures, Weidmüller offers a variety of cable glands for a wide range of applications. The cable glands made of brass, plastic and stainless steel meet the most various IP protection classes to suit any industrial enclosure. Depending on the series of cable glands and the application, the cable glands are approved and tested according to VDE, UL, UR, cULus, DNV GL or EN 45545.

General ordering data

Type	VG M20 - K 68	Version	
Order No.	2811470000	VG K (standard plastic cable gland), Cable glands, straight, M 20, 10 mm, OD min. 10 - OD max. 14 mm, IP54, IP66, IP67, IP68 - 5 bar (30 min.), Polyamide 6	
GTIN (EAN)	4064675292227		
Qty.	50 ST		
Type	VG M20-1/K68	Version	
Order No.	1772300000	VG K (standard plastic cable gland), Cable glands, straight, M 20, 10 mm, OD min. 6 - OD max. 12 mm, IP54, IP66, IP67, IP68 - 5 bar (30 min.), Polyamide 6	
GTIN (EAN)	4032248129966		
Qty.	50 ST		

Plastic lock nuts, grey



In addition to cable glands for a wide range of applications, the product portfolio is rounded off by plugs, pressure compensation elements, adaptors and the corresponding accessories such as locknuts, sealing rings, flat washers and earthing rings.

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Accessories

General ordering data

Type	SKMU M20 - K GR	Version	
Order No.	1772460000	SKMU PA (plastic locknut), Locknut, M 20, 6 mm, Polyamid 6 (PA6 -	
GTIN (EAN)	4032248130207	GF30)	
Qty.	100 ST		

Bits E6,3 - Torx®



The Weidmüller bits are standard bits which are highly popular with users thanks to their good quality, large range and efficiency. The computer-controlled hardening method enables Weidmüller to guarantee a consistently high standard of quality.

The high-quality raw materials used make it possible to reach torques far higher than any of those specified in the relevant DIN standards:

- DIN 5261 for PH/PZ bits,
- DIN 5263 for slotted bits,
- Camcar standard for TORX bits

That means a long life at high torques and hence ideal conditions for standard situations.

The benefits:

- Suitable for all types of screws. Because of their excellent hardness values of 59-61 HRC, they are suitable for use with both manual and power tools.
- Good wearing resistance and thus a long life expectancy.
- Optimum fit in all DIN screws means low wear and optimum torque transmission.
- Manufactured to meet professional quality criteria according to relevant ISO standards with a consistently high standard of quality.

General ordering data

Type	BIT E6,3 T20 X 150	Version	
Order No.	2821510000	Mounting tool	
GTIN (EAN)	4064675359050		
Qty.	5 ST		

DMS PRO



Weidmüller torque screwdrivers have an ergonomic design and are therefore ideal for use with one hand. They can be used without causing fatigue in all installation positions. Apart from that, they incorporate an automatic torque limiter and have a good reproducibility accuracy.

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Accessories

General ordering data

Type	DMS PRO	Version	
Order No.	1479120000	Mounting tool	
GTIN (EAN)	4050118287011		
Qty.	1 ST		