

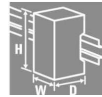
**TGD ELM-12****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Modern machines and plants require load monitoring systems capable of communication. topGUARD - the IO-Link-capable load monitoring system - offers remote control options, full data transparency and reliable protection of the 24-volt system voltage. topGUARD is the ideal complement to IO-Link capable PROtop power supplies from innovative power management systems. It follows the innovative approach to integrated potential distribution, which saves space and time in device installation. A communication module simply needs to be connected and an IODD file integrated in order to carry out parameterisation and control, and to provide all operating data.

**General ordering data**

Version	Electronic load monitoring
Order No.	<a href="#">2624990000</a>
Type	TGD ELM-12
GTIN (EAN)	4050118689433
Qty.	1 pc(s).

## TGD ELM-12

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## Technical data

## Dimensions and weights

Depth	96.5 mm	Depth (inches)	3.799 inch
Height	125 mm	Height (inches)	4.921 inch
Net weight	60 g	Width	12.2 mm
Width (inches)	0.48 inch		

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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## Input

DC input voltage range	18...30 V DC	Input fuse (internal)	Yes
Rated input voltage	24 V DC	max. admissible residual ripple at the input	100 mVpp

## Output

Capacitive load	20,000 µF	Connection system	PUSH IN
Rated current	12 A	Rated current (per channel)	12 A
Triggering characteristic	see characteristic curve	adjustable rated current	Yes

## General data

Function key	Activation time < 3s, Reset, ON	Operating temperature	-25 °C...70 °C
Relay to activate the output	No	Surge voltage category	III

## Insulation coordination

Surge voltage category	III
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## Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.14 mm <sup>2</sup>
Conductor cross-section, rigid , max.	2.5 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.14 mm <sup>2</sup>
Connection system	PUSH IN	Number of terminals	4 ( ++ / - )

## Signalling

LED green	Operation (failure-free), Early warning: I Out > 90% I Rated (flashing)	Red LED	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
Yellow LED	Address is assigned, Address is being assigned (flashing)		

## Approvals

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
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## Technical data

### Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ECLASS 9.0	27-37-10-16	ECLASS 9.1	27-37-10-16
ECLASS 10.0	27-37-10-16	ECLASS 11.0	27-37-10-16

### Approvals

Approvals



UL File Number Search [E258476](#)

### Downloads

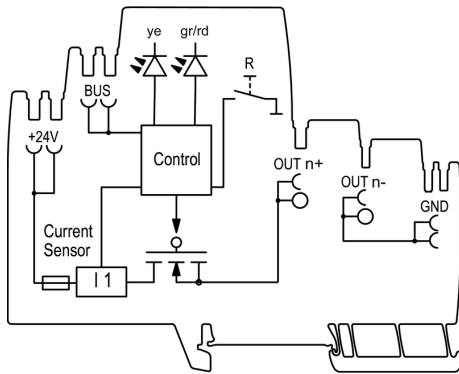
Approval/Certificate/Document of Conformity	<a href="#">DE_PA5200_200203_001.pdf</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instructions / leaflet</a>

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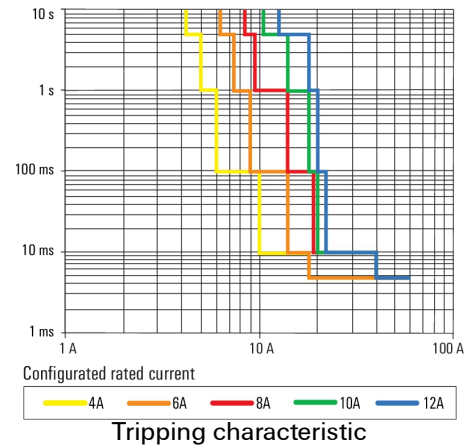
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**Drawings**



Schematic circuit diagram

**Tripping characteristic normal**



**Tripping characteristic lag**

