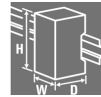


**TGD ELM-12****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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
Width	12.2 mm	Width (inches)	0.48 inch
Net weight	60 g		

## 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

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

## General data

Conformal coating	No	
Function key	Activation time < 3s, Reset, ON	
MTTF	According to Standard	SN 29500
	Operating time (hours), min.	2,505,000 h
	Ambient temperature	40 °C
	Input voltage	24 V
	Output power	288 W
	Duty cycle	100 %
Protection degree	IP20	
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 (++) / -)
Screwdriver blade	0.6 x 3.5		

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## Technical data

## Signalling

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

## Approbations

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
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## Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ETIM 8.0	EC002057	ETIM 9.0	EC001437
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
ECLASS 12.0	27-37-10-16	ECLASS 13.0	27-37-10-16

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	925510b1-0d14-47d7-86d9-90447b22ecd3

## Approvals

Approvals



UL File Number Search	UL Website
Certificate no. (cULus)	E258476

## Downloads

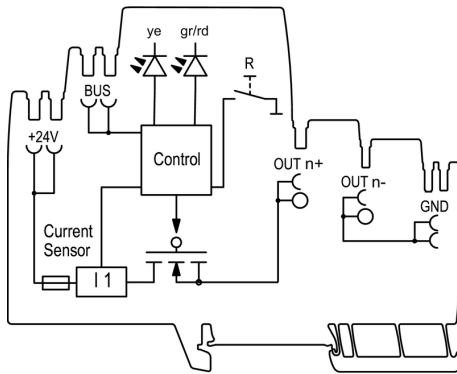
Approval/Certificate/Document of Conformity	<a href="#">TopGuard TGD ELM UL 61010-1 CSA C22.2.pdf declaration of conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Operating instructions / leaflet</a> <a href="#">IO-Link Register Description topGUARD</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

## TGD ELM-12

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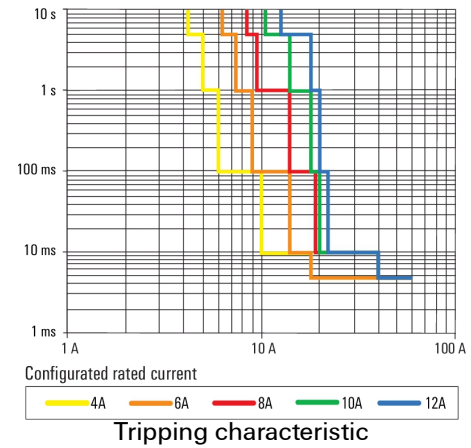
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## Drawings



Schematic circuit diagram

### Tripping characteristic normal



### Tripping characteristic lag

