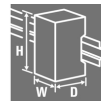


TGD ELM-12**Weidmüller Interface GmbH & Co. KG**

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.	2624990000
Type	TGD ELM-12
GTIN (EAN)	4050118689433
Qty.	1 pc(s).

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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 ²	Conductor cross-section, flexible , min.	0.14 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.14 mm ²
Connection system	PUSH IN	Number of terminals	4 (++) / -)
Screwdriver blade	0.6 x 3.5		

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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)		

Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ETIM 8.0	EC002057	ETIM 9.0	EC001437
ETIM 10.0	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	ECLASS 14.0	27-37-10-16
ECLASS 15.0	27-37-10-16		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	925510b1-0d14-47d7-86d9-90447b22ecd3

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

Downloads

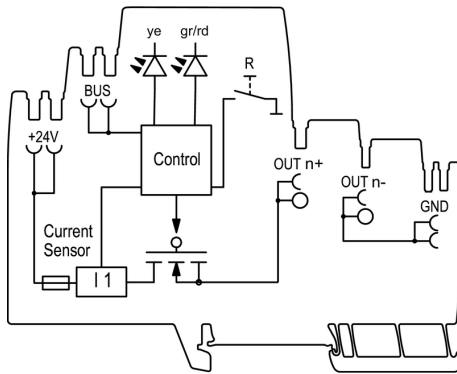
Approval/Certificate/Document of Conformity	TopGuard TGD ELM UL 61010-1 CSA C22.2.pdf Declaration of conformity
Engineering Data	CAD data – STEP Application notes – PROtop-topGUARD IO-Link CODESYS Application notes – PROtop_topGUARD IO-Link Twincat
User Documentation	Operating instructions / leaflet IO-Link Register Description topGUARD
Catalogues	Catalogues in PDF-format

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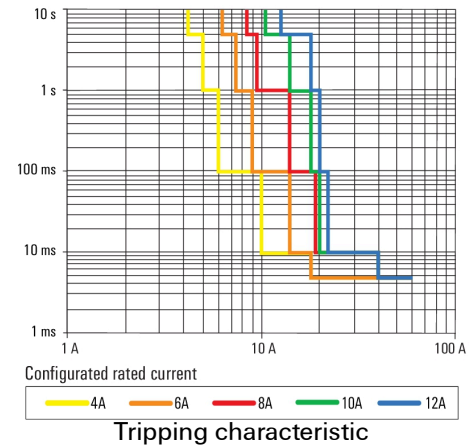
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Drawings



Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic lag

