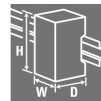


TGD ELM-4 CL2**Weidmüller Interface GmbH & Co. KG**

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. | 2656670000 |
| Type | TGD ELM-4 CL2 |
| GTIN (EAN) | 4050118686241 |
| 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 | 90 g | | |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

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 | 4.700 µF |
| Connection system | PUSH IN | Rated current | 4 A |
| Rated current (per channel) | 4 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. | 2,154,000 h |
| | Ambient temperature | 40 °C |
| | Input voltage | 24 V |
| | Output power | 96 W |
| | Duty cycle | 100 % |
| Protection degree | IP20 | |
| Relay to activate the output | No | |
| Surge voltage category | III | |

Insulation coordination

| | |
|------------------------|-----|
| Surge voltage category | III |
|------------------------|-----|

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 | 2 (+ / -) |
| 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) | | |

Approbations

| | | | |
|-------------------------|---------|-------------------|-------|
| Certificate no. (cULus) | E258476 | Institute (cULus) | CULUS |
|-------------------------|---------|-------------------|-------|

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



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E258476 |

Downloads

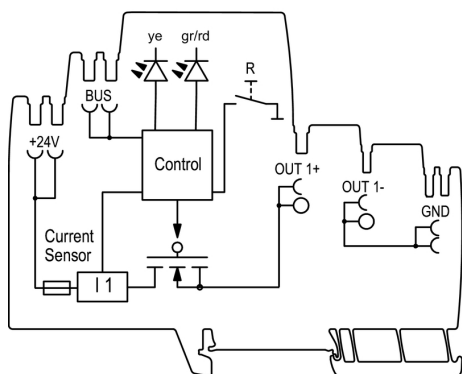
| | |
|---|--|
| Approval/Certificate/Document of Conformity | TopGuard TGD ELM UL 61010-1 CSA C22.2.pdf declaration of conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | IO-Link Register Description topGUARD Operating instructions / leaflet |
| Catalogues | Catalogues in PDF-format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

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Drawings



Tripping characteristic normal

