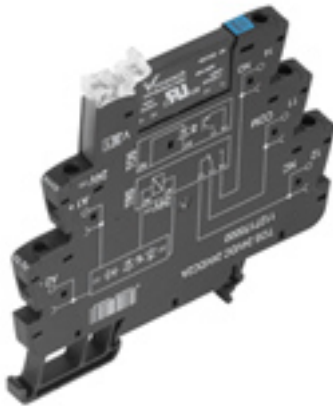


**TERMSERIES**  
**TOS 5VDC 24VDC2A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
[www.weidmueller.com](http://www.weidmueller.com)



TERMSERIES complete solid-state relay modules 3 to 33 V DC 2 A output versions consisting of a solid-state relay and a base with AC/DC/UC input; available in different designs:

- With screw connection
- In 6.4 mm width
- Optionally with multiple-voltage input: 24 to 230 V UC
- With various protective circuits in the input (free-wheel diode, RC element)
- Illuminated ejection lever

**General ordering data**

|            |                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.  | <a href="#">1127140000</a>                                                                                                                                       |
| Type       | TOS 5VDC 24VDC2A                                                                                                                                                 |
| Version    | TERMSERIES, Solid-state relay, Rated control voltage: 5 V DC $\pm 20\%$ , Rated switching voltage: 3 V...33 V DC, Rated switching current: 2 A, Screw connection |
| GTIN (EAN) | 4032248908509                                                                                                                                                    |
| Qty.       | 10 pc(s).                                                                                                                                                        |

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**Technical data**
**Dimensions**

|            |       |        |        |
|------------|-------|--------|--------|
| Length     | 88 mm | Width  | 6.4 mm |
| Height     | 90 mm | Weight | 34 g   |
| Net weight | 34 g  |        |        |

**Temperatures**

|                       |                 |                     |                 |
|-----------------------|-----------------|---------------------|-----------------|
| Operating temperature | -40 °C...+60 °C | Storage temperature | -40 °C...+85 °C |
|-----------------------|-----------------|---------------------|-----------------|

**Connection data**

|                                        |                     |                                        |                      |
|----------------------------------------|---------------------|----------------------------------------|----------------------|
| Clamping range, rated connection       | 1.5 mm <sup>2</sup> | Clamping range, rated connection, min. | 0.14 mm <sup>2</sup> |
| Clamping range, rated connection, max. | 1.5 mm <sup>2</sup> |                                        |                      |

**Control side**

|                            |              |                                  |                                                                |
|----------------------------|--------------|----------------------------------|----------------------------------------------------------------|
| Cut-in (switch-on) voltage | ≥ 3 V DC     | Dropout voltage                  | ≤ 1.7 V DC                                                     |
| Input frequency            | 300 Hz       | Nominal control current          | 10 mA DC ±20 %                                                 |
| Power rating               | 50 mW        | Protective circuit, control side | Reverse polarity protection,<br>Integrated free-wheel<br>diode |
| Rated control voltage      | 5 V DC ±20 % | Status display on control side   | Green LED                                                      |

**General data**

|                             |               |                                                                      |
|-----------------------------|---------------|----------------------------------------------------------------------|
| Conductor connection system | Humidity      | 5...95 % rel. humidity<br>T <sub>u</sub> = 40 °C, no<br>condensation |
| Screw connection            |               |                                                                      |
| Solid-state type            | POWER MOS-FET |                                                                      |

**Insulation coordination (EN 50 178)**

|                                                                  |                              |                                                     |                                |
|------------------------------------------------------------------|------------------------------|-----------------------------------------------------|--------------------------------|
| Clearance and creepage distances for<br>control side - load side | ≥ 5.5 mm                     | Dielectric strength for control side - load<br>side | 2.5 KV <sub>eff</sub> / 1 min. |
| Dielectric strength to mounting rail                             | 4 kV <sub>eff</sub> / 1 min. | Pollution severity                                  | 2                              |
| Rated impulse withstand voltage                                  | 6 kV (1.2/50 µs)             | Rated voltage                                       | 300 V                          |
| Surge voltage category                                           | III                          |                                                     |                                |

**Load side**

|                         |         |                               |                                |
|-------------------------|---------|-------------------------------|--------------------------------|
| Continuous current      | 2 A     | Protective circuit, load side | Integrated free-wheel<br>diode |
| Rated switching current | 2 A     | Rated switching voltage       | 3 V...33 V DC                  |
| Short-circuit-proof     | No      | Switch-off delay              | < 1 ms                         |
| Switch-on delay         | < 55 µs | Voltage drop at max. load     | ≤ 120 mV                       |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| eClass 6.0 | 27-27-09-90 | eClass 7.0 | 27-27-09-90 |
|------------|-------------|------------|-------------|

**Approvals**

Approvals



Creation date July 19, 2012 9:21:40 AM CEST

Catalogue status 20.05.2012 / We reserve the right to make technical changes.

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**Technical data****Downloads**

|                           |                                        |
|---------------------------|----------------------------------------|
| Declaration of Conformity | <a href="#">K438_09_11.pdf</a>         |
| PDF                       | <a href="#">Installationsanleitung</a> |
| <a href="#">3-D model</a> |                                        |

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**Drawings**
**Circuit diagram**
