

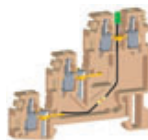
On two levels

with UL94V-0 polyamide insulating body

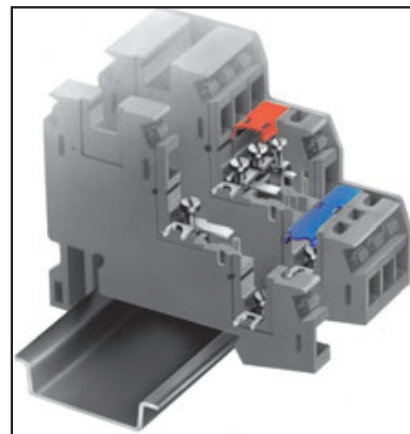
- three level - for sensors
- with LOCK system
- suited for LED indication
- to be mounted onto PR/3 type rails - according to IEC 60715 Std., "TH/35" types
- available in grey RAL 7042 and beige RAL 1001 colours



TLS.2/T



TLS.2/U



LOCK system

The /GR tag indicates the grey colour version.

| grey version | |
|---|------------------------|
| beige version | |
| (Ex)i version | |
| TECHNICAL CHARACTERISTICS | |
| function / type | |
| rated cross-section | (mm²) |
| connecting capacity | |
| flexible | (mm²) |
| rigid | (mm²) |
| max. flexible with ferrule (mm²)-ferrule type | |
| rated voltage / rated current / gauge | conf. to IEC 60947-7-1 |
| rated voltage / rated current / AWG / tightening torque value | UL |
| (Ex e) rated voltage | (V) |
| rated impulse withstand voltage / pollution degree | |
| insulation stripping length | (mm) |
| tightening torque value (test / max) | (Nm) |
| height / width / thickness | TH/35 7,5 mm |
| height / width / thickness | TH/35 15 mm |
| height / width / thickness | G32 |

APPROVALS

| ACCESSORIES | |
|---|-----------------------------|
| End sections | grey beige blue |
| Permanent cross connection | |
| Rated current carrying capacity of jumper | (A) |
| Switchable cross connection | |
| Multiple common bar | 250 mm |
| Shunting screw and sleeve | |
| Coloured partition | red, green, white |
| Cross connection barrier | red |
| Test plug socket | |
| Test plug | |
| Modular test plug | |
| End section for modular test plug | |
| Numbering strip | |
| Warning plate | on adjacent terminal blocks |
| Cover for cross-connection | |
| Marking tag | printed or blank |
| End bracket | |
| Mounting rail | |
| according to IEC 60715 Std. | |

TLS.2/T Cat. No. TL120 (with green LED between upper and intermediate levels)
 TLS.2/U Cat. No. TL110 (with green LED between upper and lower levels)

| TLS.2/GR | |
|--------------------------------------|------------------|
| | Cat. No. TL100GR |
| TLS.2 | |
| | Cat. No. TL100 |
| three level - for sensors | |
| 2,5 | |
| 0,2 ÷ 4 | |
| 0,2 ÷ 4 | |
| 2,5 - WP25/14 | |
| 250 V / 24 A / A3 | |
| 600 V / 15 A / 20-12 AWG / 3,5 lb.in | |
| - | |
| 4 KV / 3 | |
| 8 | |
| 0,4 / 0,8 | |
| 52 / 62,5 / 6,2 | |
| 60 / 62,5 / 6,2 | |
| - | |



| Type | Cat. No. |
|-----------------------------|----------|
| TLS/PT/GR | TL101GR |
| TLS/PT | TL101 |
| PM/20/2 poles | PM202 |
| PM/30/3 poles | PM303 |
| PM/30/5 poles | PM305 |
| PM/30/10 poles | PM310 |
| 24 | |
| POS/41 | POS41 |
| PMP/02 | PMP02 |
| CPM/21 | CPM21 |
| DFU/3 | DU03.. |
| DFM/400 | DF400 |
| PSD/D | PD004 |
| SDD/1 | DD001 |
| - | |
| - | |
| - | |
| PRP/5 | PRP05 |
| CNU/8/51 | NU0851 |
| BTU for PR/DIN and PR/3 | BT005 |
| BTO for PR/3 only | BT007 |
| BT/3 for PR/3 only | BT003 |
| PR/3/AC for PR/DIN and PR/3 | PR003 |
| PR/3/AS same with slots | PR005 |

For the installation on limited longitudinal space where high density wiring is needed together with reliable insulation, special feed-through two/three level terminal blocks are available. The three level terminal blocks are suitable for circuits which are to be used and connected with specific equipment, as for example proximity sensors. In fact with the combined use of TLS.2 and TLD.2 terminal block, both the feeding and the signal carrying conductors of the proximity sensors can be economically and efficiently connected. Particularly in the **TLS.2** terminal block, the intermediate and lower levels can be used to feed the sensors in d.c.; the feeding is distributed on the adjoining elements of the terminal board by means of a special **LOCK** connection system.

The above mentioned conducting bodies have a fork, pointed towards the exterior of the terminal block, which connects to the homologous element of the adjoining terminal block. The tightening of the resulting electrical contact is by means of a screw, already inserted in the threaded hole of the conducting bodies.

The LOCK system, above described, allows the connection of positive and negative poles, without the use of any other parallel cross connection. The conductors carrying the return signal from the sensor is connected to the upper feed-through level; the insertion, in the appropriate grooving of **PRP/5** coloured covers avoids any possible contact with the live parts, and allows an immediate identification of the polarity (Red for +, Blue for -).

TLD.2 terminal block is perfectly compatible with the **TLS.2** for the connection of proximity sensors, as it has the same electrical and mechanical characteristics. Two of six tightening units can be connected to the sensor feeding cables and distribute the power supply to the other sensors.

The cross-connection between the intermediate and lower levels of these terminal blocks to the contiguous ones of the TLS.2 can be performed by means of the two screws provided in the fork type conducting bodies of the TLS.2 – the first of the series – free from whatever connection; between the TLD.2 and TLS.2 terminal blocks a TLD/PI intermediate end section must be interposed, to ensure electric insulation of the TLD.2 terminal block conducting parts, which otherwise would be uncovered.

TLD.2 terminal block can also be used for other connecting applications, in other types of circuits.