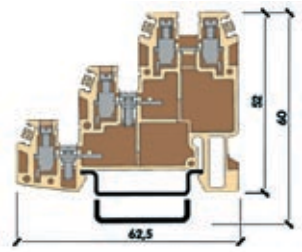
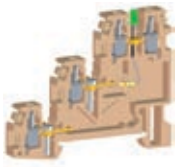
On two and three levels

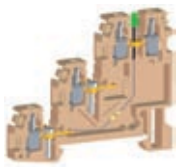
with UL94V-0 polyamide insulating body

- three level - for sensors
- with LOCK system
- suited for LED indication

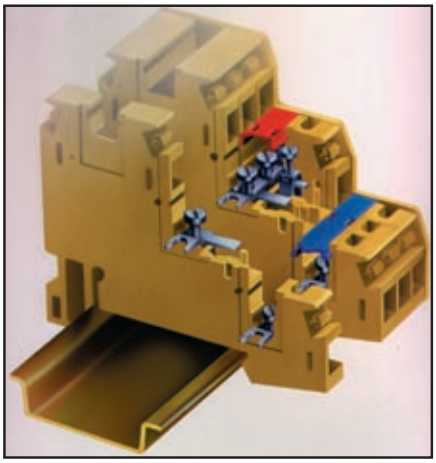




TLS.2/T



TLS.2/U



Lock system

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)

standard version

(Ex)i version

TLS.2/4

cat. No. **TL100**

TECHNICAL CHARACTERISTICS

function / type		three levels - for sensors
rated cross section	(mm²)	2,5
connecting capacity		
flexible	(mm²)	0,2 ÷ 4
rigid	(mm²)	0,2 ÷ 4
rated voltage / rated current / gauge	conf. to IEC 60947-7-1	250 V / 24 A / A3
rated voltage / rated current / AWG	UL - cUL	600 V/15 A/ 20-12 AWG
rated impulse withstand voltage / pollution degree		4 kV / 3
insulation stripping length	(mm)	8
tightening torque value (test / recommended)	(Nm)	0,4 / 0,8
position on type MK6703D power screwdriver (see page 163)		1
pitch	(mm)	6,2

APPROVALS

c UL us — KEMA KEUR

ACCESSORIES

		Type	Cat. No.
End sections	beige blue	**TLS/PT**	TL101
Permanent cross connection (pre-assembled)		**PM/20/2** poles **PM/30/3** poles **PM/30/5** poles **PM/30/10** poles	PM202 PM303 PM305 PM310
Rated current carrying capacity of jumper		**In=24 A**	
Switchable cross connection		**POS/41**	POS41
Multiple common bar	250 mm	**PMP/02**	PMP02
Shunting screw and sleeve		**CPM/21**	CPM21
Coloured partition	red, green, white	**DFU/3**	DU03..
Cross connection barrier	red	**DFM/400**	DF400
Test plug socket		**PSD/D**	PD004
Test plug		**SDD/1**	DD001
Composable test plug		-	
End section for composable test plug		-	
Numbering strip		**SNZ/60**	SN007
Warning plate	on adjacent terminal blocks	-	
Cover for cross-connection	red, blue, white	**PRP/5**	PRP05
Marking tag	printed or blank	**CNU/8** **CSC**	NU... CS....
End bracket		**BTU** for PR/DIN and PR/3	BT005
		BT/3 for PR/3 only	BT003
Mounting rail according to IEC 60715 Std.		**PR/3/AC** of steel **PR/3/AS** same with slots	PR003 PR005

For the installation on limited space where high density wiring is needed together with reliable insulation, special modular two/three way 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 middle and lower levels can be used to feed the sensors in d.c.; the feeling is distribuited 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 above described LOCK system 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 protections 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 and thanks to the almost identical shape of its insulating body.

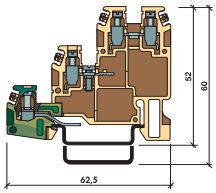
The cross-connection between the intermediate and lower levels of these terminal blocks to the contiguous ones of the TLS.2 can be perfomed by means of the two screws provided in the fork type conducting bodies of the TLS.2 – the first of the series – free from whatever connection; between the TLD.2 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.

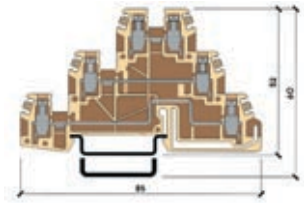
On two and three level

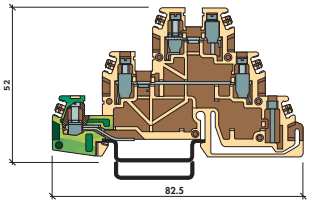
with UL94V-0 polyamide insulating body

- 3 feed-through levels
- 2 level + earth connection
- mounting onto PR/3 type rails - according to IEC 60715 Std., TH 35-7,5 and TH 35-15 types



with earth connection on lower level





with earth connection on lower level

standard version	**TLE.2/4** cat. No. **TL400**	**TLD.2/4** cat. No. **TL200**	**TDE.2/4** cat. No. **TL500**
(Ex)i version		**TLD.2/4 (Ex)i** cat. No. **TL300**	

TECHNICAL CHARACTERISTICS

function / type		2 levels + earth	3 feed-through levels	2 feed-through levels + earth
rated cross section	(mm²)	2,5	2,5	2,5
connecting capacity				
flexible	(mm²)	0,2 ÷ 4	0,2 ÷ 4	0,2 ÷ 4
rigid	(mm²)	0,2 ÷ 4	0,2 ÷ 4	0,2 ÷ 4
rated voltage / rated current / gauge	conf. to IEC 60947-7-1	250 V / 24 A / A3	250 V / 24 A / A3	250 V / 24 A / A3
rated voltage / rated current / AWG	UL - cUL	600 V / 24 A / 20-12 AWG	600 V/15 A/ 20-12 AWG	600 V / 24 A / 20-12 AWG
rated impulse withstand voltage / pollution degree		4 kV / 3	4 kV / 3	4 kV / 3
insulation stripping length	(mm)	8	8	8
tightening torque value (test / recommended)	(Nm)	0,4 / 0,8	0,4 / 0,8	0,4 / 0,8
position on type MK6703D power screwdriver (see page 163)		1	1	1
pitch	(mm)	6,2	6,2	6,2

APPROVALS

ACCESSORIES

		Type	Cat. No.	Type	Cat. No.	Type	Cat. No.
End sections	beige	**TLS/PT**	TL101	**TLD/PT**	TL201	**TLD/PT**	TL201
	blue			**TLD/PI**	TL202	**TLD/PI**	TL202
Permanent cross connection (pre-assembled)		**PM/20/2** poles	PM202	**PM/20/2** poles	PM202	**PM/20/2** poles	PM202
		PM/30/3 poles	PM303	**PM/30/3** poles	PM303	**PM/30/3** poles	PM303
		PM/30/5 poles	PM305	**PM/30/5** poles	PM305	**PM/30/5** poles	PM305
		PM/30/10 poles	PM310	**PM/30/10** poles	PM310	**PM/30/10** poles	PM310
Rated current carrying capacity of jumper		**In=24 A**		**In=24 A**		**In=24 A**	
Switchable cross connection		**POS/41**	POS41	**POS/41**	POS41	**POS/41**	POS41
Multiple common bar	250 mm	**PMP/02**	PMP02	**PMP/02**	PMP02	**PMP/02**	PMP02
Shunting screw and sleeve		**CPM/21**	CPM21	**CPM/21**	CPM21	**CPM/21**	CPM21
Coloured partition	red, green, white	**DFU/3**	DU03..	**DFU/3**	DU03..	**DFU/3**	DU03..
Cross connection barrier	red	**DFM/400**	DF400	**DFM/400**	DF400	**DFM/400**	DF400
Test plug socket		**PSD/D**	PD004	**PSD/D**	PD004	**PSD/D**	PD004
Test plug		**SDD/1**	DD001	**SDD/1**	DD001	**SDD/1**	DD001
Composable test plug		-		-		-	
End section for composable test plug		-		-		-	
Numbering strip		**SNZ/60**	SN007	**SNZ/60**	SN007	**SNZ/60**	SN007
Warning plate	on adjacent terminal blocks	-		-		-	
Cover for cross-connection	red, blue, white	**PRP/5**	PRP05	**PRP/5**	PRP05	**PRP/5**	PRP05
Marking tag	printed or blank	**CNU/8**	NU...	**CNU/8**	NU...	**CNU/8**	NU...
		CSC	CS....	**CSC**	CS....	**CSC**	CS....
End bracket		**BTU** for PR/DIN and PR/3	BT005	**BTU** for PR/DIN and PR/3	BT005	**BTU** for PR/DIN and PR/3	BT005
		BT/3 for PR/3 only	BT003	**BT/3** for PR/3 only	BT003	**BT/3** for PR/3 only	BT003
Mounting rail according to IEC 60715 Std.		**PR/3/AC** of steel	PR003	**PR/3/AC** of steel	PR003	**PR/3/AC** of steel	PR003
		PR/3/AS same with slots	PR005	**PR/3/AS** same with slots	PR005	**PR/3/AS** same with slots	PR005