

TRS system

TRS-24-E

Documentation



Tecnologie e Prodotti per l'Automazione

Document data

Date 20/05/2013
Revision 0
File Name eTRS-24-E.pdf
Protocol
Type Documentation
By ; © T.P.A. S.p.A.

Group name

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REVISIONS

Revision number	Date	Protocol	Changes and/or changed paragraphs
Rev 0	20/05/2013		First release

TOPICS

Requirements and production specification of TRS-24-E remote module.



1 DESCRIPTION

- Passive module with 8 power supply points from the field (+24Vdc) and 8 points from its mass;
- it requires a +24VDC nominal field power supply which is drawn from the TRS bus or from its terminal block by selection through a jumper;
- assembly on DIN rails type EN50022 and EN50035;
- full compatibility with TRS remote modules and TRS expansions.

2 TECHNICAL SPECIFICATIONS

- Max. current /pin: 1 A
- Reading back of the activated outputs performed with a delay of 4 ms (through TRS bus);
- 8 terminals for +24V power supply and 8 terminals for the mass.
- Connections with AWG 24 ÷ 12
- Power supply from feed-through TRS bus

3 ELECTRICAL FEATURES

3.1 Highest accepted values

Parameter	Condition	Min	Type	Max	Unit
Vcc, Power Supply	by Bus TRS pass-trough	2.7		6.5	V
On pin Current max	VO = 24 Volt DC			1	A
VO Output Power Supply	by Bus TRS or external power supply	16		36	V
Temperature		0		65	°C

3.2 Operating parameters

Parameter	Condition	Min	Typ	Max	Unit
Vcc, Power Supply	by Bus TRS pass-trough	4.5	5	5.5	V
On pin Current	VO = 24V	0		1	A
VO Output Power Supply	by Bus TRS or external power supply	18	24	30	V
Temperature		5		60	°C

4 INSTRUCTIONS

Generally, power supply, temperature and humidity should not exceed the values as indicated in the paragraph 3.

You must interface TRS-24-E using cables/terminals and everything else, as shown in the following chapters.

Terminal blocks must be inserted, even if they are not cabled.

TRS-24-E must be fixed on EN50022 or EN50035 DIN rails by means of the rear spring connection. For coupling and removal, you must work on the connecting tongue with a flat-blade screwdriver, in a way that you can move it back and allow the coupling or the release from the guide.

Warning! The metal coupling for the DIN rail is electrically connected to the circuit earth of TRS-AX: the connection to earth **MUST** be provided through this connection (that is, the DIN rail must be earthed).

TRS-24-E is an electronic device for general purposes in the environment of the light industry.

It is an A - class product, that, if installed in the home environment, may sometimes produce electromagnetic interferences. Therefore, the final user must take all the precautions needed.

5 CABLING MAPS



1	+24Vdc		
2	GND24		

1	+24Vdc		
2	+24Vdc		
3	+24Vdc		
4	+24Vdc		
5	+24Vdc		
6	+24Vdc		
7	+24Vdc		
8	+24Vdc		

1	GND24		
2	GND24		
3	GND24		
4	GND24		
5	GND24		
6	GND24		
7	GND24		
8	GND24		

5.1 + 24Vdc Power supply

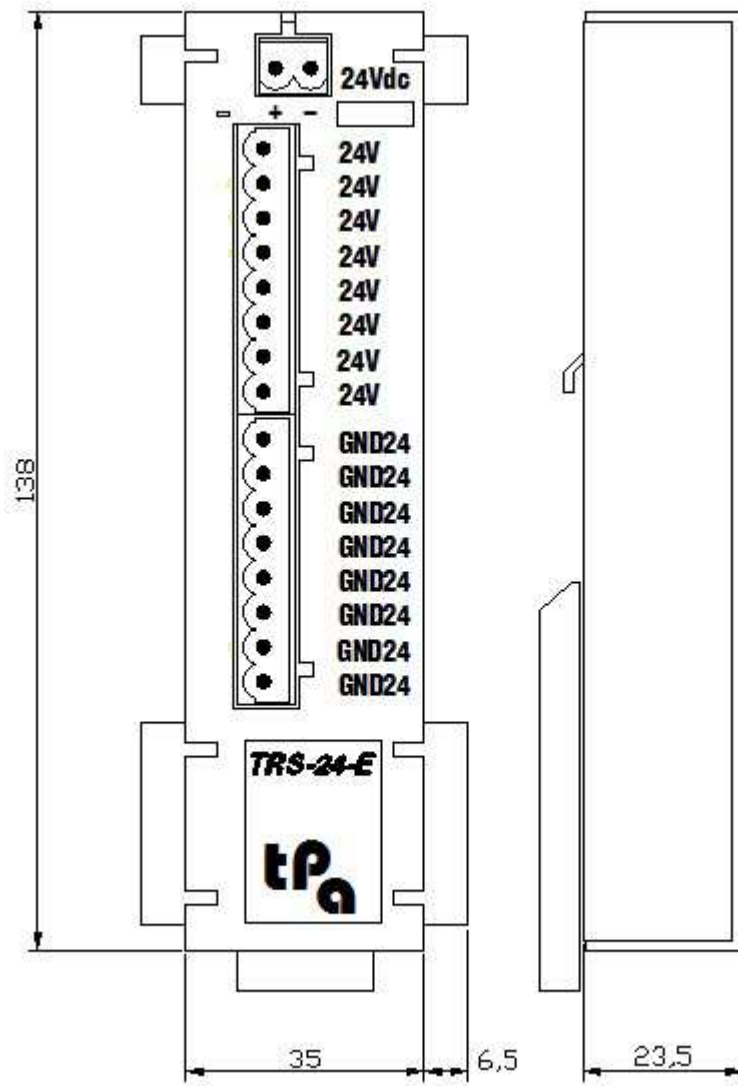
You can draw the +24Vdc power directly from the TRS bus, that is by means of the connection to the remote TRS master, without cabling the supply terminal block. Let the J2 jumper inserted.

You can also supply the +24Vdc field power through the +24Vdc terminal block. If this mode is used, the J2 jumper must be removed .

Removing the J2 jumper disconnects the +24Vdc power supply on the TRS-24-E expansion, but allows the continuity of the +24Vdc power supply supplied via TRS Bus on both the expansions upstream and downstream.

In any case the terminal block must be inserted.

6 DIMENSIONS





T.P.A. S.p.A. Tecnologie e Prodotti per l'Automazione
Via Carducci, 221 - 20099 Sesto S. Giovanni
Tel. +390236527550 – fax: +39022481008
e-mail: marketing@tpaspa.it - www.tpaspa.it
P.I.: IT02016240968 C.F.: 06658040156