

Application Note TNT 33 / 34 Series Substituts

Including SMC 33



- Replacement for TNT 33/34 Series
 - ⇒ TNT 33
 - ⇒ TNT 33 + SMC 33
 - ⇒ TNT 34 (TNT 33 with Automatic restart)

Find the correct replacement

Old	New	Description
TNT 33	MSI-TR1B-0x*	Only positive test pulses possible.
TNT 33 + SMC 33	MSI420.TMC-03	
TNT 34 (TNT 33 with automatic restart)	MSI-TR1B-0x*	

The replacement is not possible with TLS85/4 and TLS72/4 Series!

- * -01: Screw terminal
- 02: Spring-cage terminal

Find the correct replacement

TNT 33 / TNT 34



MSI-TR1B



TNT 33

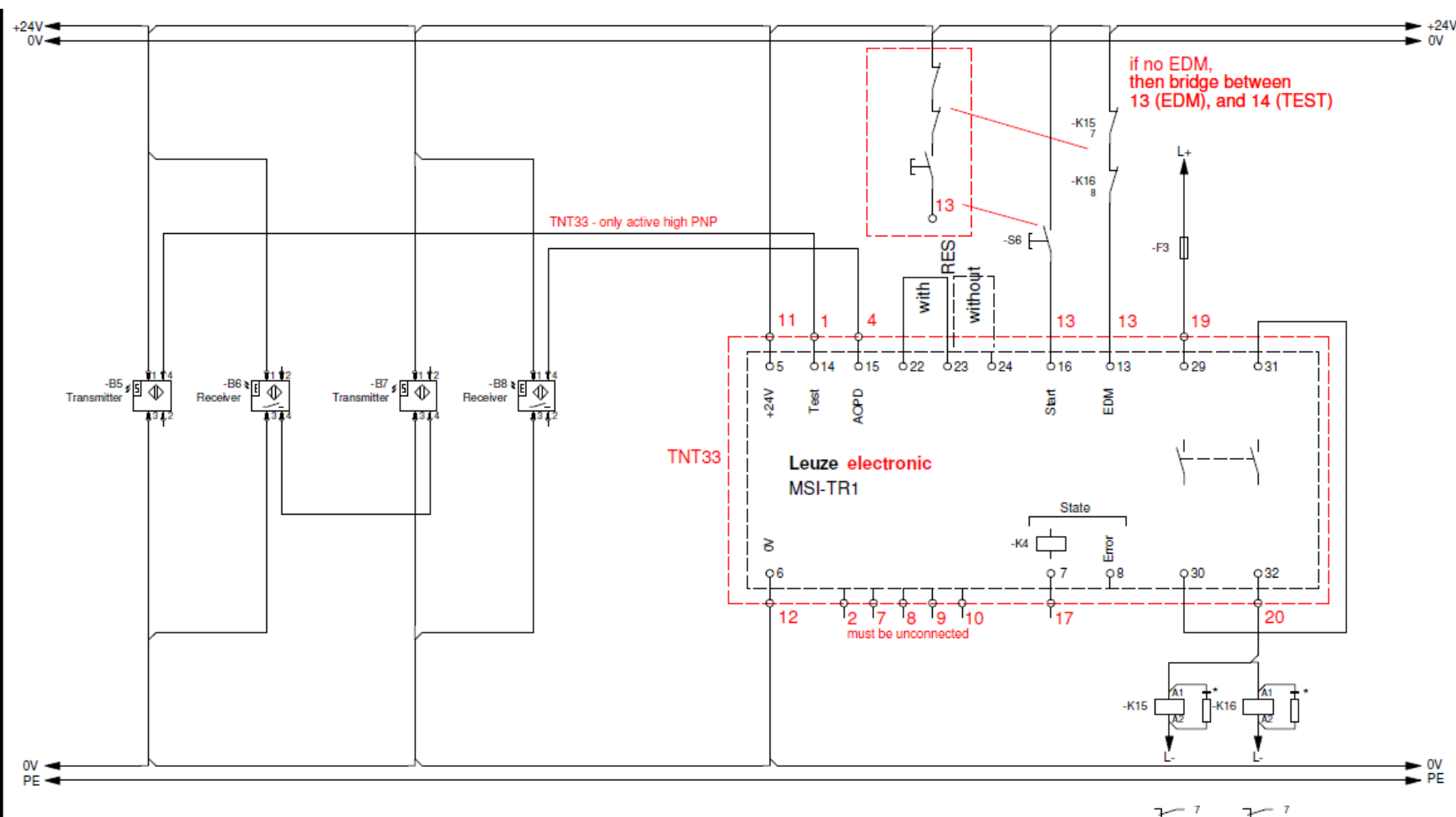
SMC 33



MSI 420.TMC-03



Wiring overview TNT33 / TNT34 => MSI-TR1B



*) Spark suppressor, provide suitable surge protection
 Rewiring TNT33 WITHOUT SMC33!!! to MSI-TR1
 Observe the operating instructions of the components!

Wiring overview TNT33 + SMC33 => MSI 420.TMC-03

TNT 33 / SMC33	TMC 66	Description	MSI 420.TMC-03*
1	1	Sensor active	T1
4	2	Sensor signal	I1
13	3	Start / active	I2
	4	Input EDM	I3
	5	Output Error	IQ1
17	6	Output Safety On	IQ2
5	7	Output Start 1 - active	IQ3
6	8	Input Start 1 - edge	I4
8	9	Output Start 2 - active	IQ4
9	10	Input Start 2 - edge	I5
	11	+24V	A1/B1/B2
	12	GND	A2
14	13	Input Control 1	I6
16	14	Input Control 2	I7
19	15	Indicator Light 1	Q3
20	16	Indicator Light 2	n.c**
	17	Safety output 1	Q1
	18	Safety output 1	n.c**
19	19	Safety output 2	Q2
20	20	Safety output 2	n.c**
			I10 Selection of operation mode
			I11 Selection of operation mode
			I12 Selection of operation mode

*For further information, please check our Website

** not connected

Article numbers

Product	Article number	Description	Safety Level
MSI-TR1B-01	547958	Screw terminal	Type 2 / PL c / SIL 1
MSI-TR1B-02	547959	Spring-cage terminal	Type 2 / PL c / SIL 1
MSI 420.TMC-03	50142625	Spring-cage terminal Full programmed MSI. No additional software needed.	Type 4 / PL e / SIL 3

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