

Leuze

Application Note TNT 35 Series Substituts



– Replacement for TNT 35 Series

⇒ TNT 35

⇒ TNT 35.1

⇒ TNT 35.2

⇒ TNT 35-7 / 24V

Find the correct replacement

Old	New	Description
TNT 35	MSI-TR1B-0x*	1:1 Replacement
TNT 35.1	MSI-TR2B-0x*	130ms (MSI-TR2B) filtertime instead of 200ms (TNT 35.1)
TNT 35.2	MSI-TR2B-0x*	Both have 130ms filtertime
TNT 35-7 / 24V	MSI-TR1B-0x*	+24V DC (MSI-TR1B) instead of +24V AC (TNT 35-7 / 24V)



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

Wiring overview

Old		New	
Pin	Functionality	Pin	Functionality
5	+24V	5	+24V
6	GND	6	GND
7	Safety ON	7	Safety ON
8	Error	8	Error
13	EDM	13	EDM
14	Test (Transmitter)	14	Test (Transmitter)
15	AOPD (Receiver)	15	AOPD (Receiver)
16	RES/ Start	16	RES/ Start
21	Reset	21	Reset
22	Restart	22	Restart
23	MODE	23	MODE
24	Automatic Restart	24	Automatic Restart
29	OSSD1	29	OSSD1
30	OSSD2	30	OSSD2
31	SSD1	31	SSD1
32	SSD2	32	SSD2

Wiring overview

Old TNT 35-7 / 24V

New

Pin	Functionality	Pin	Functionality
1	24V AC		
2	GND Sensor 1		
3	GND Sensor 2		
5	+24V	5	+24V
6	GND	6	GND
7	Safety ON	7	Safety ON
8	Error	8	Error
9	24V AC		
10	+24V DC Sensor 1		
11	+24V DC Sensor 2		
13	EDM	13	EDM
14	Test (Transmitter)	14	Test (Transmitter)
15	AOPD (Receiver)	15	AOPD (Receiver)
16	RES/ Start	16	RES/ Start
21	Reset	21	Reset
22	Restart	22	Restart
23	MODE	23	MODE
24	Automatic Restart	24	Automatic Restart
29	OSSD1	29	OSSD1
30	OSSD2	30	OSSD2
31	SSD1	31	SSD1
32	SSD2	32	SSD2

- For an exchange of a TNT 35 in a existing machine, a MSI-TR1B or MSI-TR2B system is sufficient. The units are technical equal. The reduced performance level from PL-d to PL-c stems from the change of the standard EN / IEC 61496-1. This change is not a major change (EU 2009/104/EG)
- Different response time

Article numbers

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Product	Article number	Description	Responsetime
MSI-TR1B-01	547958	Screw terminal	20ms - 80ms
MSI-TR1B-02	547959	Spring-cage terminal	20ms - 80ms
MSI-TR2B-01	547960	Screw terminal	150ms
MSI-TR2B-02	547961	Spring-cage terminal	150ms

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Technical Hotline

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