



## TNT 35.2



### Test monitoring unit

- High security through permanent cyclic test in time intervals of 2 sec.
- Highest operating safety through microcontroller technique
- Security relay output with fault protected monitoring
- No interruption of operation during test procedure
- Connection possibility for all current testable protective photoelectric sensors
- Optical coupler inputs for high interference protection
- Separate signaling outputs as PNP transistor outputs
- Selectable start and restart-disable
- Response time 130 ms

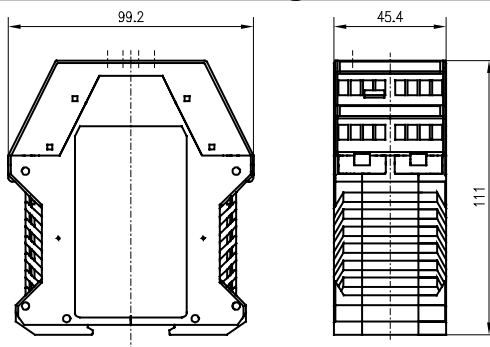
**!** The test monitoring unit TNT 35.2 is a contactless active protective device according to EN 61496-1, only in connection with an EC certified protective photoelectric sensor category 2.

**!** For TNT 35.2, min. response time is 130 ms.

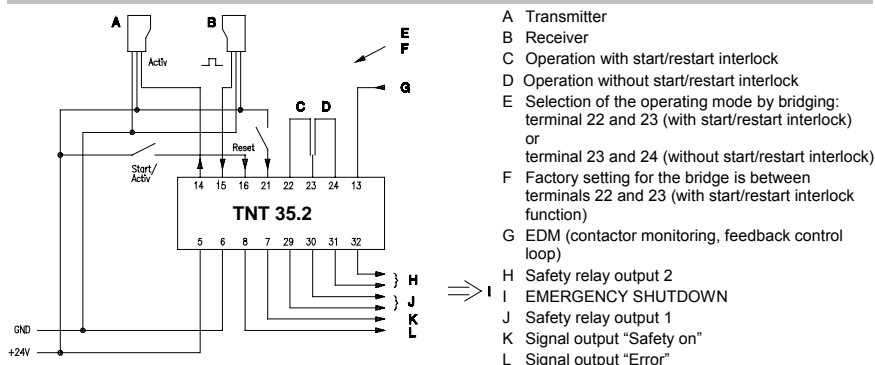


**Leuze Lumiflex GmbH + Co. KG**  
 Liebigstraße 4  
 D-82256 Fürstenfeldbruck, Germany  
 Tel: +49 8141 5350-0  
 Fax: +49 8141 5350-190  
 e-mail: lumiflex@leuze.de  
 www.leuze.com

### Dimensional drawings



### Electrical connection



### Technical data

<b>Electrical data</b>	
Operating voltage $U_B$	+ 24V DC $\pm$ 15%
Residual ripple	$\leq$ 15%
Current consumption	approx. 200 mA
Response time	$\leq$ 130 ms
Delay before start-up	approx. 2 s
<b>Sensors</b>	
Transmitter activation	PNP (High active)
Receiver input	optical coupler input, input current approx. 10 mA
<b>Inputs/outputs</b>	
Start input "START"	optical coupler input (High active), input current approx. 10 mA
Reset input	optical coupler input (High active), input current approx. 10 mA
Contact monitoring (EDM)	optical coupler input (High active), input current approx. 10 mA
Signal output "Safety on"	PNP transistor output, 100 mA short-circuit and polarity reversal protection
Signal output "Error"	PNP transistor output, 100 mA short-circuit and polarity reversal protection
Safety output	voltage free N.O. contacts, max. current load 4A
Fuse	external with max. 4AMT
Overvoltage category	2 for rating voltage 300VAC acc. to VDE 0110 part 1
<b>Mechanical data</b>	
Housing	polyamide PA6.6/gray
Connection	screw terminals, connection cross section 0.2 ... 2.5 mm
Mounting type	snap-on mounting on top hat rail acc. to EN 50022
Weight	approx. 200 g
Dimensions (WxHxD)	45 mm x 100 mm x 115 mm
<b>Environmental data</b>	
Ambient temp. (operation/storage)	-20°C ... +60°C/-30°C ... +70°C
Protection class	IP 40 (only for application in electrical operating rooms/switching cabinet with minimum protection class IP 54 is suitable)
Contact protection	acc. to VBG 4 and VDE 0106 part 100

### Order details

<b>Item</b>	<b>Order No.</b>
TNT 35.2	520 019

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