TNT 35

Test monitoring unit

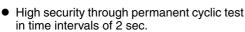




24 V DC







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 signalling outputs as PNP transistor outputs

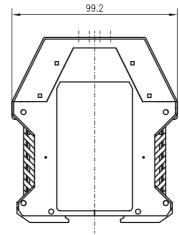
• Selectable start and restart-disable

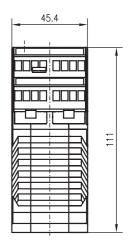




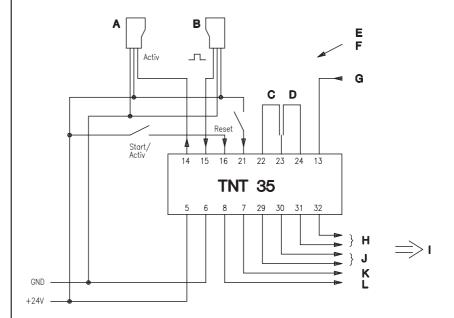
Accessories:

Dimensioned drawing





Electrical connection



- A Transmitter
- **B** Receiver
- C Operation with start/restart-disable
- D Operation without start-/restart-disable
- E Selection of the operating mode by bridging: terminal 22 and 23 (with start/restart-disable) or

terminal 23 and 24 (without start/restart-disable)

- F Factory setting for the bridge is between terminals 22 and 23 (with start/restart-disable function)
- G EDM (contactor monitoring, feedback control loop)
- H Safety relay output 2
- I EMERGENCY SHUTDOWN
- J Safety relay output 1
- K Signal output "Safety on"
- L Signal output "Error"



TNT 35

Specifications

Electrical data

Operating voltage U_B Residual ripple Current consumption Response time Delay before start-up

Sensors

Transmitter activation Receiver input

Inputs/outputs

Start input "START"

Reset input

Relay monitoring (EDM)

Signal output "Safety on"

Signal output "Error"

Safety output

Fuse

Overvoltage category

Mechanical data

Housing Connection

Mounting type Weight Dimensions (WxHxD)

Environmental data

Ambient temp. (operation/storage) Protection class

Contact protection

24 VDC ± 15 % ≤ 15 % approx. 200 mA ≤ 20 ms approx. 2s

PNP (HIGH active) optical coupler input Input current approx. 10mA

optical coupler input (HIGH active)
Input current approx. 10mA
optical coupler input (HIGH active)
Input current approx. 10mA
optical coupler input (HIGH active)
Input current approx. 10mA
PNP transistor output, 100mA
short-circuit and polarity reversal protection
PNP transistor output, 100mA
short-circuit and polarity reversal protection
voltage free N.O. contacts
max. current load 4A
external with max. 4AMT
2 for rating voltage 300VAC
acc. to VDE 0110 part 1

polyamide PA6.6/grey screw terminals connection cross section 0.2 ... 2.5mm snap-on mounting on top hat rail acc. to EN 50022 approx. 200g 45mm x 100mm x 115mm

-20°C ... +60°C/-30°C ...+70°C IP 40 (only for application in electrical operating rooms/ switching cabinet with minimum protection class IP 54 is suitable) acc. to VBG 4 and VDE 0106 part 100

Tables

Protective photoelectric sensor AOPD type 2 (extract)

Designation	Operating range
LS 763/4.8	6m
SLSR 95/44.8 L	8m
LS 92/4.8 L	12m
LS 92/4.8 S	12m
LS 92/4.8,6000	12m
SLS 96M/PT2	50m
SLSR 96K/PT2	30m
SLS 85M/P-1750-T2-8	60m
SLS 78M/P-1750-T2-8	120m
SLS 46/44.8-S12	30m
SRK 96	6m

Diagrams

Order guide

Designation Part No.
TNT 35 500 33058

Remarks

- The test monitoring unit TNT 35 is a contactless active protective device according to EN 61496-1, only in connection with an EC certified protective photoelectric sensor category 2.
- Extensive description is part of every shipment.

TNT 35 - 01 0202