

SRK 96

Reflective Safety Light Barrier Type 2



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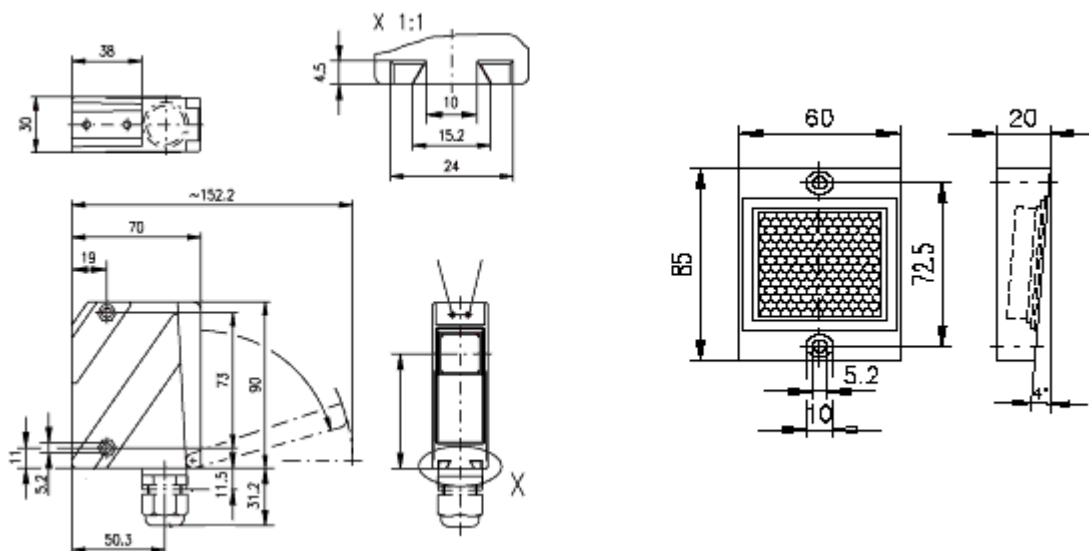
Consisting of a red-light laser barrier and a special reflector, this system qualifies for safety class Type 2 in accordance with EN/IEC 61496-1, -2 when used in conjunction with a TNT test monitoring unit or with MSI modular safety interface. This new sensor technology offers the advantages of economical and quick installation as well as simple alignment.

Advantages

- Reflective Safety Light Barrier, Type 2, in accordance with EN/IEC 61496-1, -2
- Range 6 m
- Easy to align due to visible red light
- Wiring is only on the active side
- Activation input for testing and series connection
- No manipulation possible by standard reflectors or reflective foil

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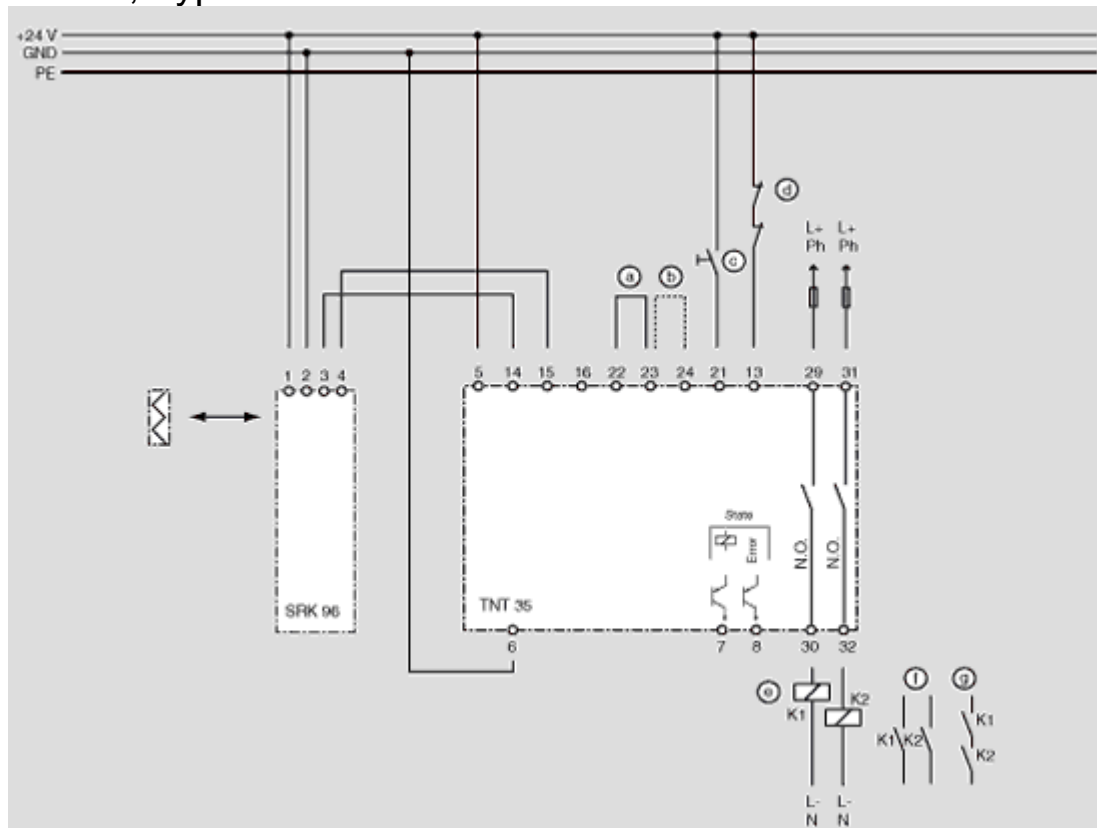
Dimensional Drawings



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Electrical Connection

Test monitoring unit TNT 35 with SRK 96 Reflective Safety Light Barrier, Type 2



- a) Bridge "with" Restart interlock, "with" relay monitoring
 - b) Bridge "without" Restart interlock, "without" relay monitoring
 - c) Start / Restart-button
 - d) Feedback circuit for relay monitoring
 - e) Positively guided relay or motor relay, provide suitable spark suppression
 - f) Switching off path 2-channel*
 - g) Switching off path 1-channel*
- * always use both contacts in the switching off path

Pay attention to the operating manual of the components please.

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Technical Data

Safety Light Barrier	SRK 96
Safety category	Type 2 according to EN/IEC 61496-1, -2 in combination with a test monitoring unit.
Operating range ¹⁾	6 m
Limit range ²⁾	7 m
Reflektor	PTKS 50x50
Light source	red light laser diode
Wave length	670 nm
LaserProtection class	2 according to DIN/EN 60825-1
Switching frequency sensor	100 Hz
Response time	6 ms
Stand-by delay	≤ 200 ms
Operation voltage U _B	10...30 VDC (residual ripple included)
Residual ripple	≤ 15% von U _B
No-load current	≤ 40 mA
Switching output	pnp transistor output
Function	bright switching
Signal voltage high/low	≥ (U _B - 2 V) / ≤ 2 V
Output current	max. 100 mA
Housing	Zinc die casting, yellow
Optical parts	Glass
Weight	380 g
Connection	Terminals or M12 circular plug-in connection
Ambient temperature (operation/storage)	-10 °C bis +50 °C / -30 °C bis +60 °C
Protection switches ³⁾	1, 2, 3, 4
VDE-Protection class ⁴⁾	II, protection isolated
Enclosure rating	IP 67
Shock proof	Semi sine, 30 gn, 11 ms (VDE 0660 T 208)
Vibration proof	10 - 55 Hz, max. 7,5 gn (VDE 0660 T 208)
Electronic compatibility	according to EN 61496-1
Transmitter activ/not aktiv	≥ 8V / ≤ 2 V
Input resistance	10 kΩ ±10%
Test time	12 ms + Response time test monitoring unit
Connectable modular safety interfaces	TNT 35 TMC 66 MSI-s/R MSI-sx/Rx MSI-m/R MSI-mx/Rx

¹⁾ Operating range: recommended Range with functional reserve

²⁾ Limit range: max. possible range without function range

³⁾ 1=transient protection, 2 pole reversal protection, 3=short circuit protection for all outputs, 4=Störaustastung

4) voltage 250 VAC

Note:

The through-beam safety light barrier is an electro-sensitive protective device only in connection with a safety-relevant control system where the cyclical testing of transmitter and receiver is carried out according to EN-/IEC61496-1, -2, category 2 (testing).