

Safety Edge: Transmitter TSS 10 & Receiver RSS 10

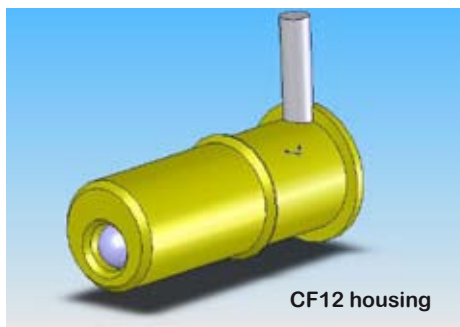
Technical data

ORDER KEY			
Model	TRANSMITTER		RECEIVER
		Rubber Profile Length	Ref.
Types	TSS 10 03 CF12 C 5	1 - 3 m	RSS 10 0 CF12 C 5 Fig.3
	TSS 10 06 CF12 C 5	2 - 6 m	Fig.3
	TSS 10 12 CF12 C 5	4 - 12 m	Fig.3
Output type			PNP NC
Conn.Skeme	Fig. 1		Fig. 2
Power	10 - 15 VDC		
Housing	Polycarbonate (PC)		
Range	Range 1 - 8 m (10 m max.) Hysteresis 15 - 20 %		

Infrared Optical Safe Edge

- marked compatible
- fully sealed IP67
- rubber profiles from 1 .. 12 m
- temperatur range -20..+60°C
- short curcuit proff output
- power supply 10 - 15 VDC
- functions LED
- easy to Install

TSS10 IR- Transmitter
RSS10 IR-Receiver



Transmitter "TSS10" electrical data

Power supply	10 - 15 VDV
Power Supply LED	Yes
Reverse polarity protection	Yes
Current consumption	25 mA @ 12 VDC
Test input	Yes
Range Adjustment	No

Receiver "RSS10" electrical data

Power supply	10 - 15 VDV
Reverse polarity protection	Yes
Current consumption	6 mA @ 10 - 15 VDC
Output	PNP NC
Output LED	Yes
Output Impedans	100 Ohm
Output level	High level: 3 - 4,5 VDC (Load 10 mA Out level 3 VDC)
Reaktion time ton // toff	1 mS / 1 mS
Frequency of operation	500 Hz ...1KHz)
Hysteresis	15 - 20 %

Optical data

Min Profile length	1 m	Select TSS model
Max Profile length	8 m	Select TSS model
Light wave length	IR 880 nm, pulsed	
Max. Surrounding light according	EN 60947-5-2	
Light immunity	50 000 lux	< 20°C
Optical angle	+/- 10°	50% Limit

Sensor System Description

The Safety edge TSS 10 / RSS 10 series is an infrared transmitter and receiver unit in a small compact safe self-contain design to be used in door applications. Connection of the Receiver RSS to the Transmitter TSS set up the system to perform oscillating self-test.

Connecting the sensors to a controlbox fullfill the safety application. The sensors can be installed in rubber profiles from 1 up to 8 m. The sensors can penetrate considerable amounts of dirt/dust besides being extremely insensivity to external foreign light and electrical interferences. The sensors are fully sealed with a IP67 tightness.

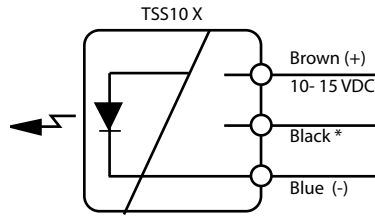
Mechanical data

Sealing class	IP 67	IEC 529
Temperature, operation	-20...+60 °C	IEC 68-2-14
Temperature, storage	-20...+80 °C	IEC 68-2-14
Vibration	10-55Hz 1,5mm pp	IEC 68-2-6
Housing	Polycarbonate	PC
Shock	30 G	IEC 68-2-27
Cable	3*0,14 mm ² PVC	IEC 68-2-27
Min cable bending radius	Min. 45 mm	IEC 68-2-27
Max. Cable pull force	Max. 60 N	IEC 947-5-2
Standard cable length	TSS 10m RSS 3m	
Max. Recommended cable length	100m	
Weight 5 m	app. 100 g	

Connections & Dimensions

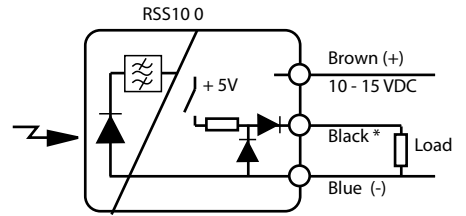
ACCESSORIES

Fig. 1 TSS 10 X



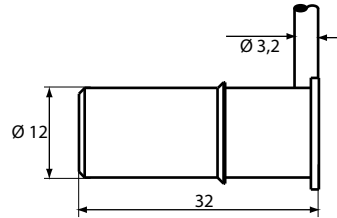
* Black wire is test input
 TSS10 3 used with profile 1 - 3 m
 TSS10 5 used with profile 2 - 5 m
 TSS10 8 used with profile 4 - 8 m

Fig. 2 RSS 10 0

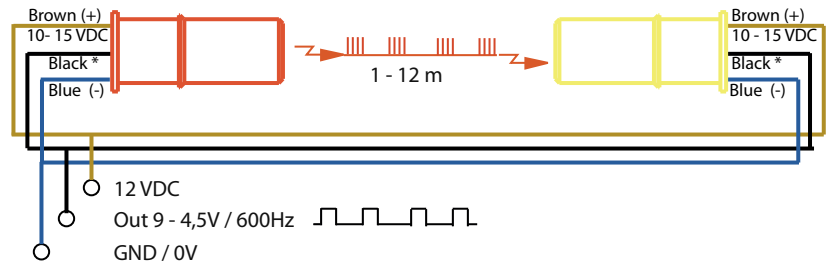


* Max output load: 100 Ohm
 RS 10 0 (PNP NC)

Fig. 3 Dimension TSS & RSS housing CF12



Connections skeme



Applications

- Main Closing Edge of a Rolling Door
- Main Closing Edge of a Folding Door
- Safeguarding Door on a Machine

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