Description

- Operation mode and max sensing range:Diffuse proximity: 0-35 cm
- Cable or plug connection
- Visible red light source
- Sensitivity adjustment via potentiometer
- Switch selectable light or dark function
- Power and output indicators
- High tolerance to hostile environments
- 10-30 V dc supply voltage
- 4 wire, NPN/PNP transistor output
- Available with optional ⟨x⟩ ATEX approval



The visible red light SMP 7000R series consists of a self-contained diffuse proximity sensor with a sensing range of up to 35 cm. The series is offered with sensitivity adjustment via integral potentiometer available with either cable or plug connection.

The series is available with a 4 wire, NPN/PNP transistor output with

a 10-30 V dc supply voltage. Both include a switch selectable light or dark function.

The series is protected against reverse polarity of power supplies, control input and output signals. The output is protected against short circuit and inductive loads.

Technical Data					
		SMP			
Supply voltage		10-30 V dc			
Voltage ripple		Max. 15 %			
Reverse polarity protected		Yes			
Short circuit protected		Yes			
Current consumption		20 mA			
Maximum output load		120 mA @ 30 V dc			
Maximum residual voltage		2 V			
Max. operation frequency		250 Hz			
Response time t _{ON} / t _{OFF}		2 ms / 2 ms			
Power on indicator		Green LED			
Output indicator		Yellow LED			
Hysteresis		Approx. 3-10 %			
Light source		Visible red light (620 nm)			
Spot size		4x4 cm @ 35 cm range			
Housing material	Sensor housing	Stainless Steel (AISI 316 / 1.4401) or Polycarbonate			
Housing material	Front lens	Polycarbonate			
Cable, PVC		Ø 4,0 mm, 4 x 0,14 mm²			

Environmental Data				
Vibration	10-55 Hz, 0,5 mm			
Shock	30 g			
Light immunity @ 15° incidence	20 000 lux			
Temperature, operation	−20 to +60 °C			
Temperature, storage	−40 to +80 °C			
Sealing class	IP 67			
Approvals	Œ ĽŔ			

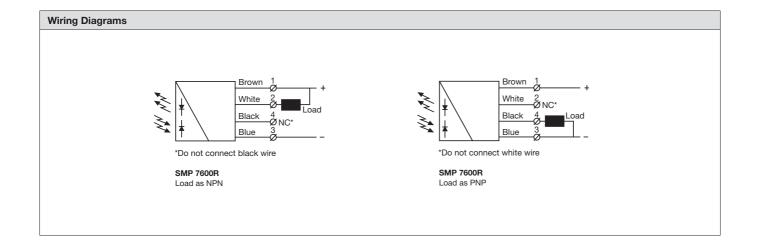


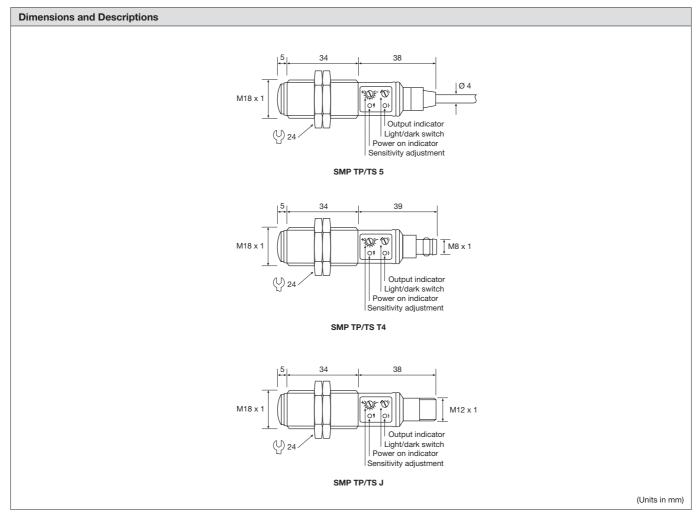
SPACEMASTER™ SERIES

Av	Available Types									
ξ	Ivpe	Power		Output	Connection		5 m cable	4 pin, M8 plug	4 pin, M12 plug	- Range
ximity		Supply			Housing Material	Housing Type		Order Reference		riange
Diffuse Pro	7600R 10-30 V dc	Sensitivity pot. and	NPN/PNP	Polycarbonate		SMP 7600R TP 5	SMP 7600R TP T4	SMP 7600R TP J	0-35 cm	
		V dc	c light/dark switch	INFIN/FINF	Stainless Steel	M18 x 1	SMP 7600R TS 5	SMP 7600R TS T4	SMP 7600R TS J	0-33 CIII

Connections					
	Cable	M8 Plug / Cable	M12 Plug / Cable		
Supply +	Brown	Pin 1 / Brown	Pin 1 / Brown		
Supply –	Blue	Pin 3 / Blue	Pin 3 / Blue		
Output	Black	Pin 4 / Black	Pin 4 / Black		
Output	White	Pin 2 / White	Pin 2 / White		







Telco reserves the right to change specifications without notice.