

## Description

- Operation mode and max sensing range:  
**Thru beam:** 1-6 m
- Sensitivity adjustment via control input
- Reverse polarity and inductive load protection
- High tolerance to hostile environments
- 10 – 30 Vdc supply voltage
- 3 wire, NPN or PNP transistor output
- Special snap-in housing design
- Quick and easy installation



The 3000 snap series consists of a low cost self-contained transmitter SMT and a receiver SMR, which are to be used in thru beam mode. The SM 3000 S30 has a unique "snap in" housing with 5 m cable connection.

The SMR is supplied with a 10-30 V dc supply voltage with a 3 wire, NPN or PNP transistor output with a choice between light or dark function.

Both the transmitter and receiver are protected against reverse polarity of power supplies, control input and output signals. The output is also protected against short circuit and inductive loads.

## Technical Data

	SMT 3000C	SMR 3x06
Supply voltage	10 – 30 V dc	
Voltage ripple	15 %	
Reverse polarity protected	Yes	
Short circuit protected	-	Yes
Power consumption	Max. 30 mA	Max. 8 mA
Maximum output load	-	100 mA
Maximum residual voltage	-	2.5 V
Maximum operation frequency	-	> 125 Hz
Response time $t_{ON} / t_{OFF}$	-	< 4 ms / < 6 ms
Hysteresis	-	Approx. 25 %
Transmitter diode	Ga Al As (880 nm)	-
Opening angle	-	+/- 10°
Emission angle	+/- 11°	-

## Environmental Data

Vibration	10 – 55 Hz, 0.5 mm	
Shock	30 g	
Light immunity, @ 5° incidence	-	> 35 000 lux
Temperature, operation	- 20° to + 50°	
Temperature, storage	- 40° to + 80°	
Sealing class	IP 67	
Approvals	CE	

**Available Types**

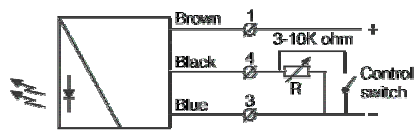
Transmitter	Type	Control Feature	Output	Connection		5 m cable
				Housing Material	Housing size	Order Reference
	<b>3000C</b>	Adjustable range and test input	-	Polycarbonate	Ø 12,7	<b>SMT 3000C S30 5</b>

Receiver	3006	-	NPN, NC (light operated)	Polycarbonate	Ø 12,7	<b>SMR 3006 S30 5</b>
	3106		NPN, NO (dark operated)			<b>SMR 3106 S30 5</b>
	3206		PNP, NC (light operated)			<b>SMR 3206 S30 5</b>
	3306		PNP, NO (dark operated)			<b>SMR 3306 S30 5</b>

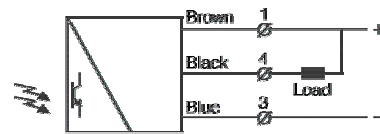
**Connections**

	Cable
Supply +	Brown
Supply -	Blue
SMT control	Black
SMR output	Black

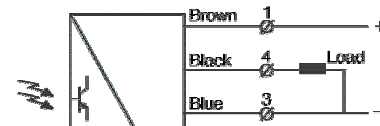
**Wiring Diagrams**



**SMT 3000C 1-6 m variable range and ON/OFF switch for transmitting power**

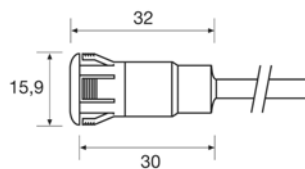


**SMR 3006 / 3106**



**SMR 3206 / 3306**

**Dimensions and Descriptions**



(Units in mm)

Telco reserves the right to change specifications without notice