SPACEMASTER™ SERIES

Description

- Operation mode and max sensing range: Thru-beam: 1-10 m
- Cable or plug connection
- Sensitivity adjustment via control input
- Power and output indicator
- 10 30 V dc supply voltage
- 3 wire, NPN or PNP transistor output
- Narrow optical beam
- TÜV approved as safety device (AOPD) for power operated doors and gates acc. EN12978



The 3000/CAT2 series consists of a self-contained transmitter SMT and a receiver SMR, which are to be used in thru beam mode. The complete series is available in a wide range of housings with either cable or plug connection.

The SMR is supplied with a 10-30 V dc supply voltage with a 3 wire, NPN or PNP transistor output in light operated.

The control input in the SMT may be used for either disabling or enabling the transmitting power temporarily for test purpose, multiplexing applications or as a gradual regulation of the transmitting power level.

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

Technical Data					
		SMT	SMR		
		3010C/CAT2	3x10/CAT2		
Supply voltage		10 – 30 V dc			
Voltage ripple		15 %			
Reverse polarity protecte	ed	Yes			
Short circuit protected		-	Yes		
Current consumption		Max. 30 mA	Max. 8 mA		
Maximum output load		-	100 mA		
Maximum residual voltaç	ge	-	2,5 V		
Maximum operation freq	uency	-	> 15 Hz		
Response time t _{ON} / t _{OFF}		-	< 14 ms / < 34 ms		
Power on indicator		Green LED	-		
Output indicator		-	Yellow LED		
Hysteresis		-	Approx. 25 %		
Light source		Infrared (880 nm)	-		
Opening angle		-	+/- 2°		
Emission angle		+/- 2°	-		
Housing material	Sensor housing	Nickel Plated Brass or Polycarbonate			
Housing material	Front lens	Poly	arbonate		
Cable, PVC Ø 3,4 mm		3 x 0,14 mm²			

Environmental Data						
Vibration	Vibration 10 – 55 Hz, 0,5 mm					
Shock	30	30 g				
Light immunity, @ 0° incidence	_	20 000 lux				
Temperature, operation	-20 to +50 °C					
Temperature, storage	-40 to +80 °C					
Sealing class	IP 67					
Approvals	Œ					
Safety category TÜV acc. EN 12978:2003, IEC 61496-2:1997, EN ISO 13849-1:2006		496-2:1997, EN ISO 13849-1:2006				



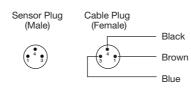
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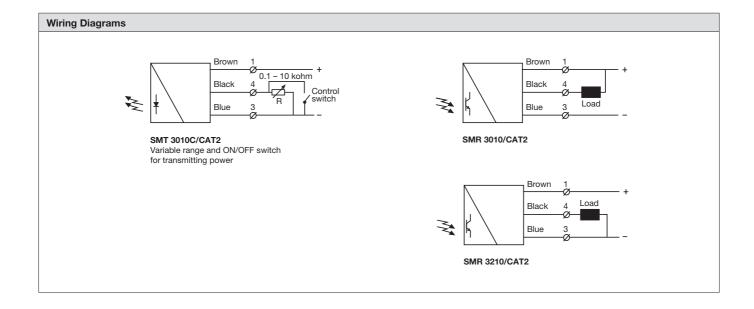
A۱	Available Types											
	Туре	Control Feature	Output	Connection		5 m cable	15 m cable	0.15m cable with 3 pin, M8 plug	Range			
-				Housing Material	Housing Size		Order Reference	eference				
Transmitte		Adjustable range and test input		Dahaankanata	Ø10	SMT 3010C/CAT2 AP 5	SMT 3010C/CAT2 AP 15	SMT 3010C/CAT2 AP 0.15/T3				
			range and _	_		d _	ige and _	nd –	Polycarbonate	SMT 3010C/CAT2 TP 5	SMT 3010C/CAT2 TP 15	SMT 3010C/CAT2 TP 0.15/T3
			•	Nickel Plated Brass	M12 x 1	SMT 3010C/CAT2 TB 5	SMT 3010C/CAT2 TB 15	SMT 3010C/CAT2 TB 0.15/T3				

			NIDM NIG	Dahasahasah	Ø10	SMR 3010/CAT2 AP 5	SMR 3010/CAT2 AP 15	SMR 3010/CAT2 AP 0.15/T3	
	3010		NPN, NC (light operated)	Polycarbonate		SMR 3010/CAT2 TP 5	SMR 3010/CAT2 TP 15	SMR 3010/CAT2 TP 0.15/T3	
eiver	eiver		operated)	Nickel Plated Brass	M12 x 1	SMR 3010/CAT2 TB 5	SMR 3010/CAT2 TB 15	SMR 3010/CAT2 TB 0.15/T3	10 m
Rec		-	PNP. NC	Polycarbonate	Ø10	SMR 3210/CAT2 AP 5	SMR 3210/CAT2 AP 15	SMR 3210/CAT2 AP 0.15/T3	
	3210		(light operated)	1 diyearbonate	M12 x 1	SMR 3210/CAT2 TP 5	SMR 3210/CAT2 TP 15	SMR 3210/CAT2 TP 0.15/T3	
				Nickel Plated Brass		SMR 3210/CAT2 TB 5	SMR 3210/CAT2 TB 15	SMR 3210/CAT2 TB 0.15/T3	

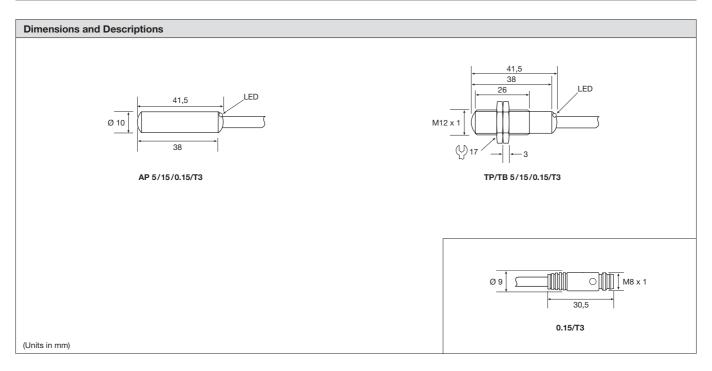
Connections					
	Cable	M8 Plug / Cable			
Supply +	Brown	Pin 1 / Brown			
Supply –	Blue	Pin 3 / Blue			
SMT control	Black	Pin 4 / Black			
SMR output	Black	Pin 4 / Black			

3 pin, M8

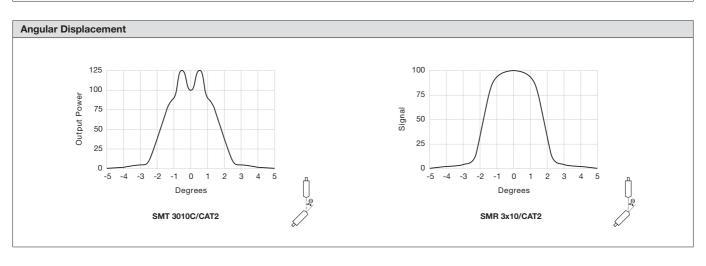




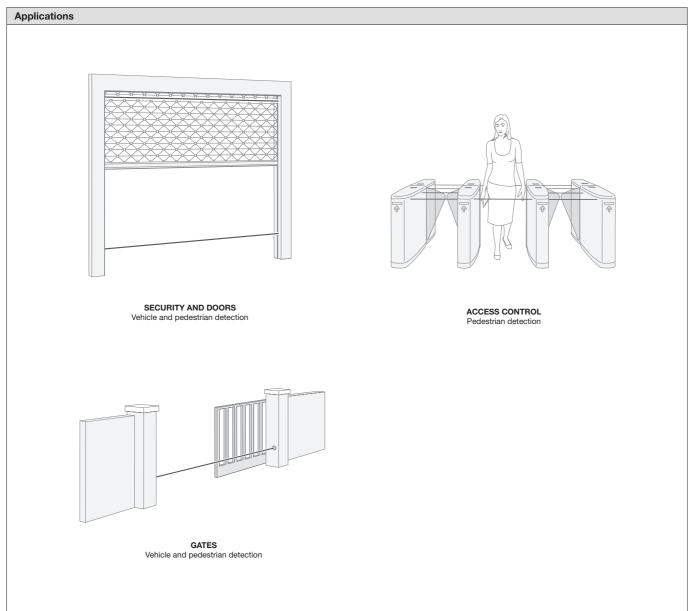
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Response Times						
_	S	MT (test input reaction time))	SMR (output response time)		
Range	Ton (beam break)	Toff (beam make)	Tr (min)	Ton (beam break)	Toff (beam make)	
2 m	14 ms	10 ms	20 ms	14 ms	10 ms	
4 m	12 ms	11 ms	18 ms	12 ms	11 ms	
6 m	11 ms	15 ms	17 ms	11 ms	15 ms	
8 m	8 ms	29 ms	14 ms	8 ms	29 ms	
10 m	8 ms	34 ms	14 ms	8 ms	34 ms	
SGT t N	Ton	Т	off			
N	ot active — —					







Telco reserves the right to change specifications without notice.