

SPACEMASTER™ SERIES

SM 6000

Description

- Operation mode and max sensing range: Thru-beam: 1-6 m
- Cable or plug connection
- · Sensitivity adjustment via control input
- Wide variety of housings
- Power and output indicators
- High tolerance to hostile environments
- 10-32 V dc supply voltage
- 3 wire, NPN or PNP output or
 - 4 wire, NPN/PNP opto isolated output
- 5 or 0,5 ms response time
- Low current consumption
- Test input



The 6000 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 plug or cable connection.

The SMR is supplied with a 10-32 V dc supply voltage with either a 3 wire, NPN or PNP or as a 4 wire, NPN/PNP opto-isolated transistor output with a choice between light or dark function. The SMR is available with either a 0,5 ms response time and a 2 metre range, or with a 5 ms

response time and a 6 metre range. 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 supplies, control input and output signals. The output is also protected against short circuit and inductive loads.

Technical Data			
	SMT	SMR	
	SWII	6x02	6x06
Supply voltage		10-32 V dc	
Voltage ripple	.//	15 %	
Reverse polarity protected		Yes	
Short circuit protected	-	Yes	
Current consumption		max. 320 mW	
Maximum output load	-	100 mA	4
Maximum residual voltage	_	2,5 V	
Maximum operation frequency	-	1000 Hz	100 Hz
Response time t _{ON} / t _{OFF}	-	0,5 ms / 0,5 ms	5 ms / 5 ms
Power on indicator	Green LED	_	
Output indicator	-	Yellow LE	ED
Hysteresis	-	Approx. 3	0%
Light source	Infrared (880 nm)	-	
Opening angle	-	+/- 6°	
Emission angle	+/- 10°	-	
Sensor housing Housing material		Stainless Steel (AISI 316 / 1.4401) or Plastic	
Front lens		Polycarbonate	
Cable, PVC Ø 4,0 mm		3 x 0,14 mm ²	



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Environmental Data		
	SMT	SMR
Vibration		10-55 Hz, 0,5 mm
Shock		30 g
Light immunity, @ 5° incidence	-	> 50 000 lux
Temperature, operation		−20 to +60 °C
Temperature, storage		−40 to +80 °C
Sealing class		IP 67
Approvals		Œ

A۱	/ailable	Types								
	Туре	Control	Output	Connec	tion	5 m cable	3 pin, M8 plug	4 pin, M8 plug	4 pin, M12 plug	Range
	туре	Feature	Output	Housing Material	Housing Type		Order F	Reference		nange
				Debrasilement	Ø10	SMT 6000 AP 5	SMT 6000 AP T3	_	_	
tte		Adjustable		Polycarbonate	M12 x 1	SMT 6000 TP 5	SMT 6000 TP T3	_	_	
smi	6000	range and	-	0::1 0: 1	Ø10	SMT 6000 AS 5	SMT 6000 AS T3	SMT 6000 AS T4	-	1-6 m
Transmitter		test input		Stainless Steel	M12 x 1	SMT 6000 TS 5	SMT 6000 TS T3	SMT 6000 TS T4	SMT 6000 TS J	
				Polyester	□ 9,5 x 11,5	SMT 6000 SG 5 1	SMT 6000 SG T3	-	-	
					Ø10	SMR 6006 AP 5	SMR 6006 AP T3		_	
				Polycarbonate	M12 x 1	SMR 6006 TP 5	SMR 6006 TP T3	-	_	
	6006		NPN LO (NC)		Ø10	SMR 6006 AS 5	SMR 6006 AS T3	-	_	
			LO (NC)	Stainless Steel	M12 x 1	SMR 6006 TS 5	SMR 6006 TS T3	-	SMR 6006 TS J	
				Polyester	□ 9,5 x 11,5	SMR 6006 SG 5 1	SMR 6006 SG T3		_	
					Ø10	SMR 6106 AP 5	SMR 6106 AP T3	-	_	
				Polycarbonate	M12 x 1	SMR 6106 TP 5	SMR 6106 TP T3	-	_	
	6106		NPN DO (NO)		Ø10	SMR 6106 AS 5	SMR 6106 AS T3	_	-	
			DO (NO)	Stainless Steel	M12 x 1	SMR 6106 TS 5	SMR 6106 TS T3		SMR 6106 TS J	
				Polyester	□ 9,5 x 11,5	SMR 6106 SG 5 1	SMR 6106 SG T3	/// -	/-/	
				Debessibersets	Ø10	SMR 6206 AP 5	SMR 6206 AP T3	-	_	
				Polycarbonate	M12 x 1	SMR 6206 TP 5	SMR 6206 TP T3		//-	
2	6206		PNP LO (NC)	Stainless Steel	Ø10	SMR 6206 AS 5	SMR 6206 AS T3	_	//-	
несегиег		-	20 (110)	Stainless Steel	M12 x 1	SMR 6206 TS 5	SMR 6206 TS T3	-	SMR 6206 TS J	6 m
ב				Polyester	□ 9,5 x 11,5	SMR 6206 SG 5 1	SMR 6206 SG T3	-	-	
				Polycarbonate	Ø10	SMR 6306 AP 5	SMR 6306 AP T3	-	-	
				Folycarbonate	M12 x 1	SMR 6306 TP 5	SMR 6306 TP T3	-	-	
	6306		PNP DO (NO)	Stainless Steel	Ø10	SMR 6306 AS 5	SMR 6306 AS T3	-	-	
			50 (1.10)	Stairliess Steel	M12 x 1	SMR 6306 TS 5	SMR 6306 TS T3	_	SMR 6306 TS J	
				Polyester	□ 9,5 x 11,5	SMR 6306 SG 5 ¹	SMR 6306 SG T3	-	_	
	6406		NPN/PNP		Ø10	_	-	SMR 6406 AS T4	-	
	0400		DO (NO)	Chairless Cha-l	M12 x 1	-	-	SMR 6406 TS T4	SMR 6406 TS J	
	eeoc		NPN/PNP	Stainless Steel	Ø10	-	-	SMR 6506 AS T4	-	
	6506		LO (NC)		M12 x 1	-	-	SMR 6506 TS T4	SMR 6506 TS J	

Note: Sensors marked ¹ do not have power on or output indicators incorporated.



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T	Control	0.44	Connect	ion	5m cable	3 pin, M8 plug	4 pin, M8 plug	4 pin, M12 plug	D
Type	Feature	Output	Housing Material	Housing Type		Order R	eference		Range
			B	Ø10	SMR 6002 AP 5	SMR 6002 AP T3	_	-	
			Polycarbonate	M12 x 1	SMR 6002 TP 5	SMR 6002 TP T3	-	-	
6002		NPN LO (NC)	Stainless Steel	Ø10	SMR 6002 AS 5	SMR 6002 AS T3	-	-	
		(***)	Stairliess Steel	M12 x 1	SMR 6002 TS 5	SMR 6002 TS T3	-	SMR 6002 TS J	
			Polyester	□ 9,5 x 11,5	SMR 6002 SG 5 ¹	SMR 6002 SG T3	-	_	
			Polycarbonate	Ø10	SMR 6102 AP 5	SMR 6102 AP T3	-	_	
		N.D.	1 Olycarbonate	M12 x 1	SMR 6102 TP 5	SMR 6102 TP T3	_	_	
6102		NPN DO (NO)	Stainless Steel	Ø10	SMR 6102 AS 5	SMR 6102 AS T3	_	_	
			Gtairliess Gteer	M12 x 1	SMR 6102 TS 5	SMR 6102 TS T3	_	SMR 6102 TS J	
			Polyester	□ 9,5 x 11,5	SMR 6102 SG 5 ¹	SMR 6102 SG T3	_	-	
			Polycarbonate	Ø10	SMR 6202 AP 5	SMR 6202 AP T3	_	-	
		PNP	1 diyourbonato	M12 x 1	SMR 6202 TP 5	SMR 6202 TP T3	_	-	2 m
6202	_	LO (NC)	Stainless Steel	Ø10	SMR 6202 AS 5	SMR 6202 AS T3	_	-	211
			Claimeso Cloci	M12 x 1	SMR 6202 TS 5	SMR 6202 TS T3	-	SMR 6202 TS J	
			Polyester	□ 9,5 x 11,5	SMR 6202 SG 5 1	SMR 6202 SG T3	_	_	
			Polycarbonate	Ø10	SMR 6302 AP 5	SMR 6302 AP T3	-	_	
		PNP	. olyour bollulo	M12 x 1	SMR 6302 TP 5	SMR 6302 TP T3	_	-	
6302		DO (NO)	Stainless Steel	Ø10	SMR 6302 AS 5	SMR 6302 AS T3	-	-	
			Claimeso Cloci	M12 x 1	SMR 6302 TS 5	SMR 6302 TS T3	-	SMR 6302 TS J	
			Polyester	□ 9,5 x 11,5	SMR 6302 SG 5 1	SMR 6302 SG T3	-	-	
6402		NPN/PNP		Ø10	-	-	SMR 6402 AS T4	-	
		DO (NO)	Stainless Steel	M12 x 1	-	-	SMR 6402 TS T4	SMR 6402 TS J	
6502		NPN/PNP	Ciaiiiioss Oteel	Ø10	_	-	SMR 6502 AS T4	-	
		LO (NC)		M12 x 1		11-	SMR 6502 TS T4	SMR 6502 TS J	

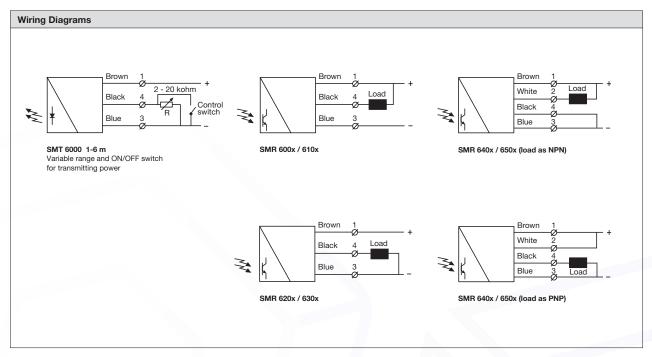
Note: Sensors marked 1 do not have power on or output indicators incorporated

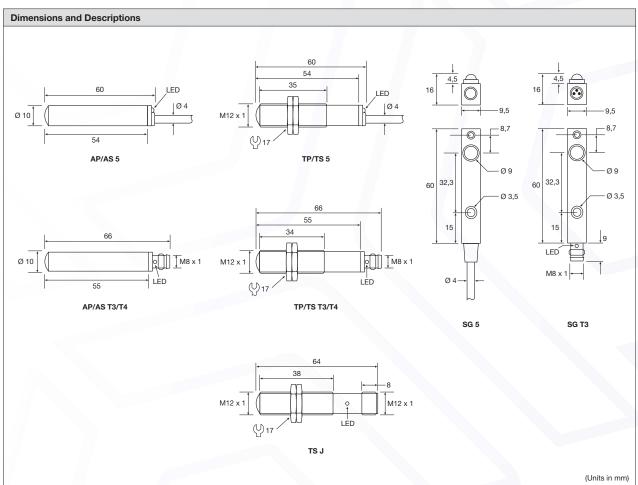
Connections			
	Cable	M8 Plug / Cable	M12 Plug / Cable
Supply +	Brown	Pin 1 / Brown	Pin 1 / Brown
Supply –	Blue	Pin 3 / Blue	Pin 3 / Blue
SMT control input	Black	Pin 4 / Black	Pin 4 / Black
SMR output	Black	Pin 4 / Black	Pin 4 / Black
SMR output	White	Pin 2 / White	Pin 2 / White
3 pin, M8	4 pin, M8	la Plug Sans	4 pin, M12
3 pin, M8	4 pin, M8		4 pin, M12
3 pin, M8 Sensor Plug Cable Plug (Male) (Female)	Sensor Plug Cab		4 pin, M12 or Plug Cable Plug fale) (Female)
Sensor Plug Cable Plug (Male) (Female) Blac	Sensor Plug Cab (Male) (Fe		or Plug Cable Plug
Sensor Plug Cable Plug (Male) (Female)	Sensor Plug Cab (Male) (Fe	emale) (N	or Plug Cable Plug (Female) Brown
Sensor Plug (Male) (Female) Blac	Sensor Plug (Male) (Fe	emale) (N	Cable Plug (Female) Brown A 3 4 4 9 4 3 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Sensor Plug Cable Plug (Male) (Female) Blac	Sensor Plug (Male) (Fe	White Brown Blue	Cable Plug (Female) Brown White Blue
Sensor Plug (Male) (Female) Blac	Sensor Plug (Male) (Fe	white White Brown	Cable Plug (Female) Brown A 3 4 4 9 4 3 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Sensor Plug (Male) (Female) Blac	Sensor Plug (Male) (Fe	White Brown Blue	Cable Plug (Female) Brown White Blue



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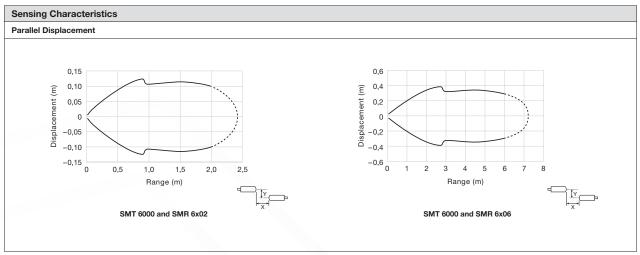


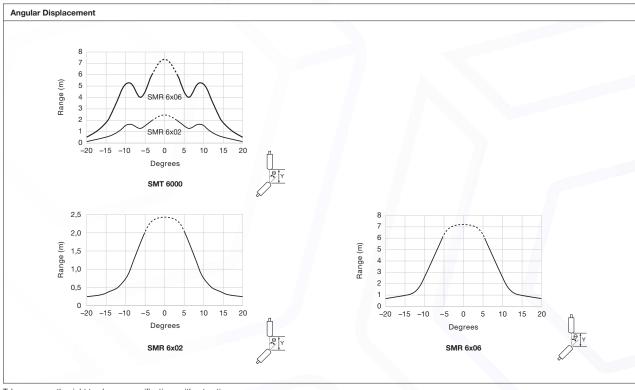




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Telco reserves the right to change specifications without notice.

