SPACEMASTER™ SERIES SM 7000



Description

Operation mode and max sensing range:

Thru-beam: 0-20 m
Diffuse proximity: 0-1 m
Retro reflective: 0,1-3 m
Fibre: Dependent on fibre optic

- Cable or plug connection
- 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 or
 4 wire, ambivalent PNP/PNP transistor output
- Test input



The 7000 series consists of a self-contained transmitter SMT, and a receiver SMR which are to be used in thru-beam mode, an SMP for diffuse proximity, SMRR for retro reflective and an SMPF for use with fibre optic cables. All are offered with sensitivity adjustment via integral potentiometer, and with either cable or plug connection.

The complete series is available either as 4 wire, NPN/PNP transistor output or 4 wire ambivalent PNP/PNP output, and with a 10-30 V dc supply voltage, both offering switch selectable light or dark function.

The SMR is available with either a 0.5 ms response time and a 7 metre range or with a 2 ms response time and a 20 metre range. The control input in the SMT is intended to be used for disabling or enabling the transmitting power temporarily for test purpose or for multiplexing applications.

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

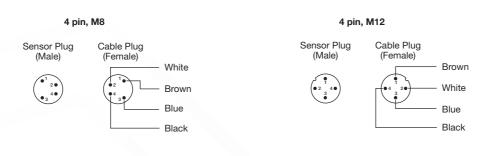
Technical Data						
	SMT	SMR		OLAD	OL ADE	OMEDIA
	SIVIT	7x07	7x20	SMP	SMPF	SMRR
Supply voltage	10-30 V dc					
Voltage ripple	Max. 15 %					
Reverse polarity protected		Yes				
Short circuit protected	_		Yes			
Current consumption	25 mA	15 mA		20 mA		
Maximum output load	-			120 mA / 30 V dc		
Maximum residual voltage	-			2 V		
Maximum operation frequency	-	1000 Hz	250 Hz			
Response time t _{ON} / t _{OFF}	-	0,5 ms / 0,5 ms	2 ms / 2 ms			
Power on indicator	Green LED					
Output indicator	-	- Yellow LED				
Hysteresis	-	Approx. 15-20 % Approx. 3-10 %				
Light source	Infrared (880 nm)	-		Infrared (880 nm)		
Opening angle	_	+/- 6°		+/	+/- 4° +/-	
Emission angle	+/- 2°			-		
Sensor housing	Stainless Steel (AISI 316 / 1.4401) or Polycarbonate					
Housing material Front lens	Polycarbonate					
Cable, PVC Ø 4,0 mm	3 x 0,14 mm ²	4 x 0,14 mm²				

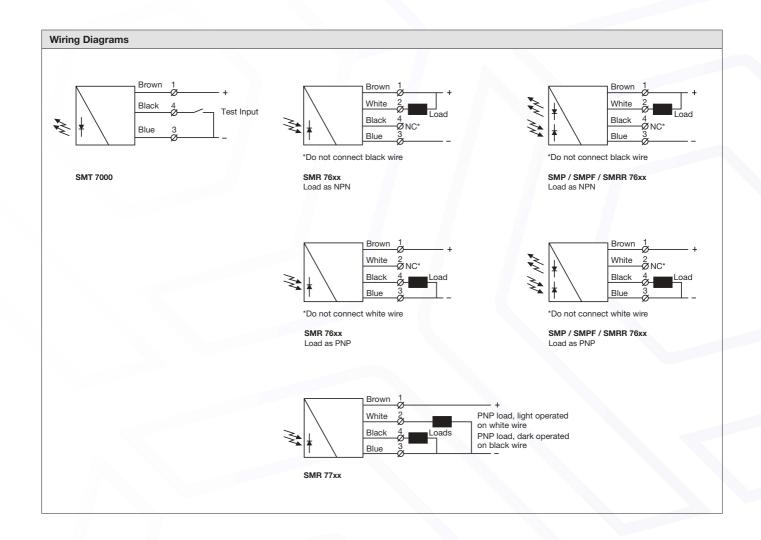
Environmental Da	ta						
		SMT	SI	/IR	SMP	SMPF	SMRR
		SIVIT	7x07	7x20	SIVIE	SIVII 1	SWITH
Vibration				10-55 Hz	z, 0,5 mm		
Shock				30) g		
Light immunity	@ 5° incidence	_	20 00	00 lux		_	
Light inimunity	@ 15° incidence	-	_		40 000 lux		25 000 lux
Temperature, operation		−20 to +60 °C					
Temperature, storage				-40 to	+80 °C		
Sealing class				IP	67		
Approvals				(E		

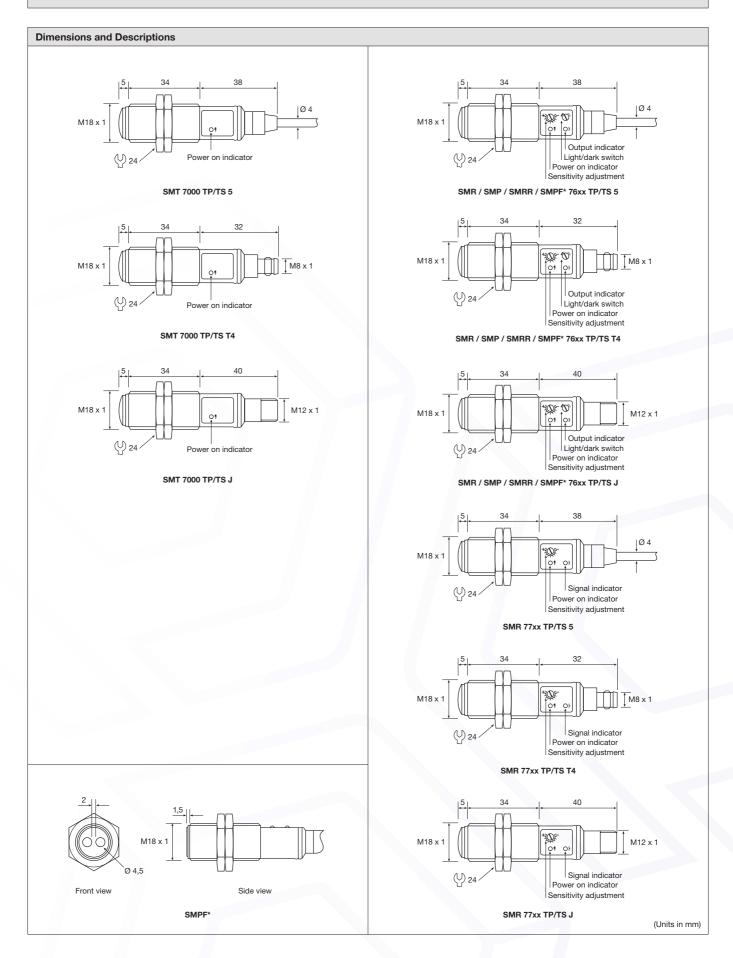
Αv	ailable 1	Types								
	Туре	Power	Control	Output	Connection		5 m cable	4 pin, M8 plug 4 pin, M12 plug		Range
	71	Supply	Feature							
Iransmitter	7000	10-30	Test		Polycarbonate	M18 x 1	SMT 7000 TP J	20 m		
Irans		V dc	V dc Input	_	Stainless Steel		SMT 7000 TS 5	SMT 7000 TS T4	SMT 7000 TS J	20111
	7607				Polycarbonate		SMR 7607 TP 5	SMR 7607 TP T4	SMR 7607 TP J	0-7 m
	7007		pot. and light/dark switch 10-30 V.dc NPN/PNP Polycarbonate Stainless Steel M18 x 1		Stainless Steel		SMR 7607 TS 5	SMR 7607 TS T4	SMR 7607 TS J	0-7111
	7600			SMR 7620 TP 5	SMR 7620 TP T4	SMR 7620 TP J	0.00			
Iver	7620	10-30			Stainless Steel	M18 x 1	SMR 7620 TS 5	SMR 7620 TS T4	SMR 7620 TS J	0-20 m
Receiver		V dc			Polycarbonate		SMR 7707 TP 5	SMR 7707 TP T4	SMR 7707 TP J	0-7 m
_	7707		Sensitivity		Stainless Steel		SMR 7707 TS 5	SMR 7707 TS T4	SMR 7707 TS J	
			pot.	PNP/PNP	Polycarbonate		SMR 7720 TP 5	SMR 7720 TP T4	SMR 7720 TP J	
	7720				Stainless Steel		SMR 7720 TS 5	SMR 7720 TS T4	SMR 7720 TS J	0-20 m
										-
					Polycarbonate	SMP 7600 TP J	0.05			
Proximity	7600	10-30	Sensitivity pot. and		Stainless Steel		SMP 7600 TS 5	SMP 7600 TS T4	SMP 7600 TS J	- 0-0,5 m
, lox		V dc	light/dark	NPN/PNP	Polycarbonate	M18 x 1	SMP 7601 TP 5	SMP 7601 TP T4	SMP 7601 TP J	
-	7601		switch Stainless Steel		SMP 7601 TS 5	SMP 7601 TS T4	SMP 7601 TS J	0,15-1 m		
ensor	7000	10-30	Sensitivity pot. and	NDN/DND	Polycarbonate	M40 4	SMPF 7600 TP 5	SMPF 7600 TP T4	SMPF 7600 TP J	Refer to Glass Fibre
Fibre Sensor	7600	-	light/dark switch	NPN/PNP	Stainless Steel	M18 x 1	SMPF 7600 TS 5	SMPF 7600 TS T4	SMPF 7600 TS J	Optics datasheet
ote	: Glass fil	bre optic ca	ble to be ord	dered separa	tely.					
эпесиле	7600	10-30	Sensitivity pot. and	NPN/PNP	Polycarbonate	M19 v 1	SMRR 7600 TP 5	SMRR 7600 TP T4	SMRR 7600 TP J	012m
Retro Reflective	7600	V dc	dc light/dark switch	ark	Stainless Steel	M18 x 1	SMRR 7600 TS 5	SMRR 7600 TS T4	SMRR 7600 TS J	- 0,1-3 m

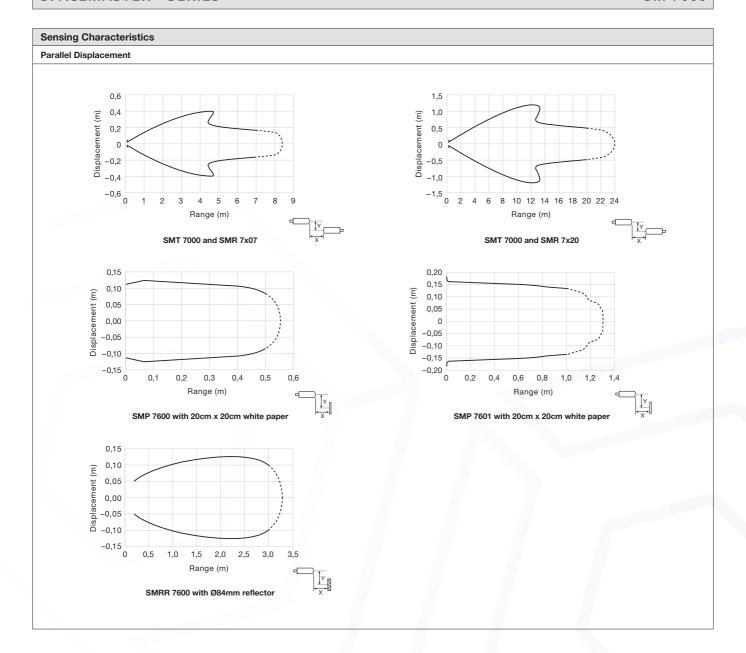
Note: Reflector to be ordered separately.

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 test input	Black	Pin 4 / Black	Pin 4 / Black			
Output	Black	Pin 4 / Black	Pin 4 / Black			
Output	White	Pin 2 / White	Pin 2 / White			

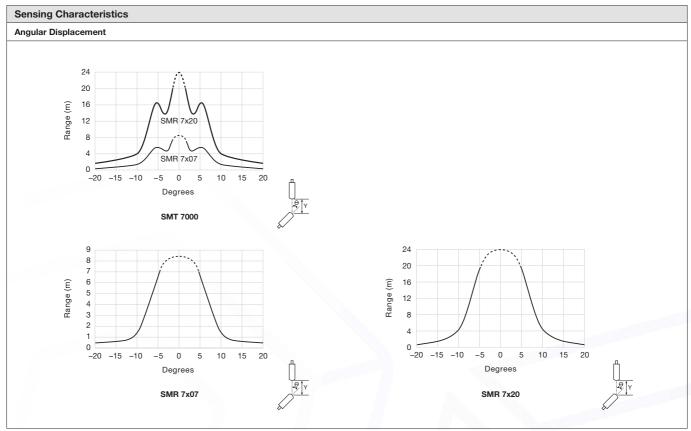












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