SPACEPAK™ SERIES SPTF 3000

Description

- Time-of-Flight measurement sensor
- Max. range 15 m
- Range on A4 white paper 6 m
- Compact rectangular housing (50x50 mm)
- 5 m cable connection
- IRED based for robustness and easy alignment
- Two transistor outputs (NPN or PNP) for 'end stop alarm' or 'inside-outside' alarm
- Teach in push button configuration of analogue and digital outputs
- Response time / sensitivity rotary selector
- Rotary selector for current 4-20 mA or voltage 0-10 V analogue output
- Power, signal level and 2 output indicators



The SPTF 3000 series is a high performance Time-of-Flight measurement sensor line housed in a compact rectangular housing, with a 5 m cable connection. The sensors are available with or without analogue output, and with either two NPN or two PNP transistor outputs.

The unit is calibrated using two teach-in push buttons and two rotary selectors, located on the top control panel. The teach-in function sets the interval of the range measurement: distance point that corresponds to 0V/4mA and distance point that corresponds to 10V/20mA. The teach-in is also used to set the distance points at which each of the digital output switches.

The two digital outputs can be used to set a 'high' (near distance point) and a 'low' alarm (far distance point). The outputs can also be configured to indicate whether an object is inside or outside a set range interval. The control input enables the teach-in calibration to be set remotely.

The sensitivity and response time of the sensor is selected via a 3-position rotary mode selector. The current output, 4-20 mA, or voltage output, 0-10 V, is selectable by a rotary selector. The range is 6 m against an A4 white paper target and up to max. 15m against 1 m^2 or larger, white target.

Technical Data					
		SPTF 3000			
Supply voltage		15-30 V dc			
Voltage ripple		Max. 15 %			
	Digital	200 mA / 30 V			
Output		Voltage: $Z_{load} \ge 1k\Omega$			
	Analogue	Current: $Z_{load} \le 600\Omega$			
Reverse polarity protected		Yes			
Short circuit protected		Yes			
Current consumption		< 60 mA			
	M1	10 ms / 2 m			
Max. response time / range	M2	50 ms / 4 m			
	M3	500 ms / 6 m			
Power on indicator		Green LED			
Output indicators		Yellow LED			
Signal status indicator		Red LED			
Light source		Infrared (880 nm)			
Opening angle		+/- 1,5°			
Emission angle		+/- 1,5°			
Housing material	Sensor housing	Polycarbonate / ABS			
	Front lens	Polycarbonate			
Cable, PVC Ø 4,9 mm		5 / 6 x 0,20 mm ²			



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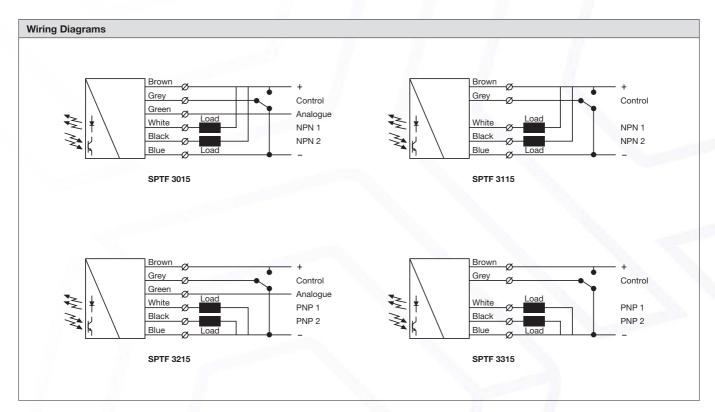


SPTF 3000 SPACEPAK™ SERIES

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

Available Types						
	Туре	Power Supply	Digital Output	Connection	5 m cable	Range
Туре		Power Supply	Digital Output	Analogue Output	Order Reference	hange
Time-of-Flight	3015	15-30 V dc	2 x NPN	4-20 mA / 0-10 V	SPTF 3015 5	- - 6 m
	3115		2 x NPN	None	SPTF 3115 5	
	3215		2 x PNP	4-20 mA / 0-10 V	SPTF 3215 5	0111
	3315		2 x PNP	None	SPTF 3315 5	

Connections				
	Cable			
Supply +	Brown			
Supply –	Blue			
Analogue output (4-20 mA / 0-10 V)	Green			
Control input	Grey			
Digital output 1 (NPN, PNP)	White			
Digital output 2 (NPN, PNP)	Black			



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