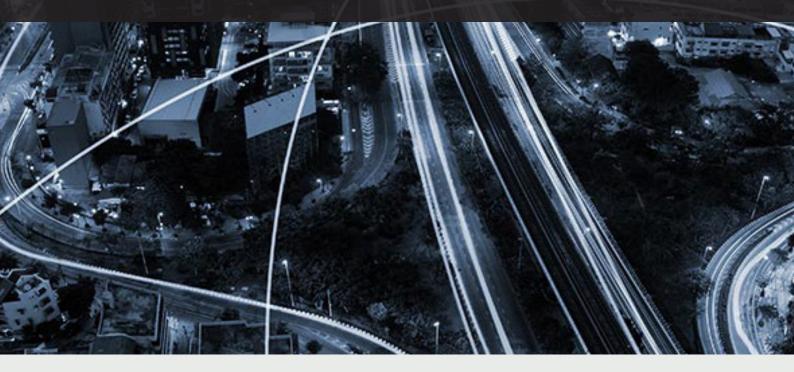


# SPACEGUARD<sup>tm</sup> SGP 30 series

**DATASHEET** 



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# **SPACEGUARD™ SERIES**

**SGP 30** 

### Description

- Diffuse proximity operation mode
- 0-1,3 metre sensing range
- 8 to 40 proximity channels
- Active length of 330 mm to 1800 mm
- Housing length of 510 mm to 1980 mm
- Plug connection
- Sensitivity adjustment via potentiometer
- Blanking function
- Water-resistant (23,4x30,9 mm) detector housing
- High tolerance to hostile environments
- Power, output and system status indicators
- 12-30 V dc supply voltage
- 5 wire, solid state relay output



The SGP 30 is a diffuse proximity light curtain system housed in a sturdy aluminium profile ( $23.4 \times 30.9$  mm) with a T-slot mounting rail, available in lengths from 510 mm to 1980 mm.

Multiple transmitter/receiver pairs generate an array of channels operating in diffuse proximity mode over the active zone of the profile. The system generates a discrete output whenever one or more of the channels are activated by emitted light from transmitter element being reflected back to the paired receiver.

The series is available with a 12-30 V dc supply voltage and a solid state

relay output, which has a choice of light or dark operation. Sensitivity is adjustable via an integral potentiometer.

The SGP 30 features a blanking function which is configurable using a control input to memorise the channels which detect an object (activated) during set-up, allowing those channels to be ignored when operation is resumed.

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

Technical Data					
Supply voltage		12-30 V dc			
Current consumption		120 mA (RMS)			
Output rating	Solid state	200 mA			
Short circuit protected		Yes			
Reverse polarity protected		Yes			
Light source		Infrared (880 nm)			
Opening angle		+/- 10°			
Number of proximity channel pa	airs	8, 16, 24, 32, 40			
Active length		330, 695, 1065, 1430, 1800			
Channel spacing		46 mm			
Bottom spacing to channel pair	1	25 mm			
Response time		8/16/24 chs: 26 ms 32 chs: 32 ms 40 chs: 38 ms			
Power on indicator		Green LED			
Output indicator		Yellow LED			
System status indicator		Red LED			
Blanking function		Configurable			
Housing dimensions (w x d)		23,4 x 30,9 mm			
Housing material	Profile	Aluminium (black anodised)			
	Lens Cover	Polycarbonate			
Connection Cable, PVC Ø 5,9 n	nm	0,5 m cable with 5 pin, M12 plug			

Environmental Data				
Vibration	10-55 Hz, 0,5 mm			
Shock	30 g			
Light immunity @ 5° incidence	> 100 000 lux			
Temperature, operation	−30 to +60 °C			
Temperature, storage	-40 to +80 °C			
Sealing class	IP 67			
Approvals	<b>(</b> (			





Av	Available Types								
	Housing	Active	Number of	Channel	Connection		0.5 m cable with 5 pin, M12 plug	Range	
	Length	Length	Channels	Spacing	Out	tput	Order Reference	hange	
	F10	10 mm 330 mm	8	46 mm	Solid State Relay	NO (LO)	SGP 30-051-008-A1-M-08-0.5-J5	0-1,3 m	
	510 mm					NC (DO)	SGP 30-051-008-A1-M-09-0.5-J5		
4	880 mm	695 mm	16			NO (LO)	SGP 30-088-016-A1-M-08-0.5-J5		
<u>E</u>						NC (DO)	SGP 30-088-016-A1-M-09-0.5-J5		
rox	1250 mm	m 1065 mm	24			NO (LO)	SGP 30-125-024-A1-M-08-0.5-J5		
						NC (DO)	SGP 30-125-024-A1-M-09-0.5-J5		
ffus	1610 mm	) mm 1430 mm	32			NO (LO)	SGP 30-161-032-A1-M-08-0.5-J5		
₫						NC (DO)	SGP 30-161-032-A1-M-09-0.5-J5		
	1000	1000	1800 mm 40			NO (LO)	SGP 30-198-040-A1-M-08-0.5-J5		
	1980 mm   18	1800 mm				NC (DO)	SGP 30-198-040-A1-M-09-0.5-J5		

Connections						
	M12 Plug / Cable					
Supply +	Pin 1 / Brown					
Supply –	Pin 3 / Blue					
Blanking function control input Ctrl	Pin 2 / White					
Output	Pin 4 / Black					
Output	Pin 5 / Grey					
	Sensor Plug Cable Plug (Male) (Female)					
	5 pin, M12					
	(Male) (Fernale)  Blue					
	Black					
	64 36 63 46 Grey					
	●1 2 ●					
	Brown					
	White					

