SPACEGUARD™ SERIES

SGP 30



Description

- Diffuse proximity operation mode
- 0-1,3 metre sensing range
- 8 to 40 proximity channels
- Active height of 330 mm to 1800 mm
- 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 x 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.

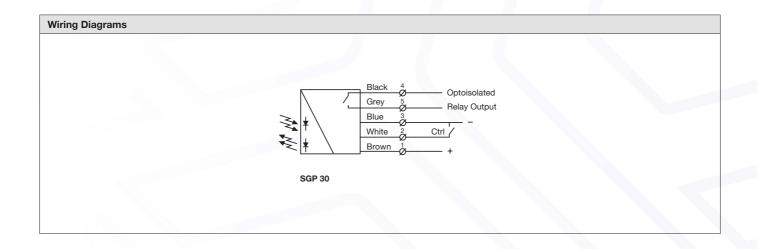
Both the transmitter and receiver units are protected against reverse polarity of power supplies, control inputs and output signals. The output is also protected against short circuit and inductive loads.

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 pairs	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				
Profile	Aluminium (black anodised)				
Housing material Lens Cover	Polycarbonate				
Connection Cable, PVC Ø 5,9 mm	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	€ CA				

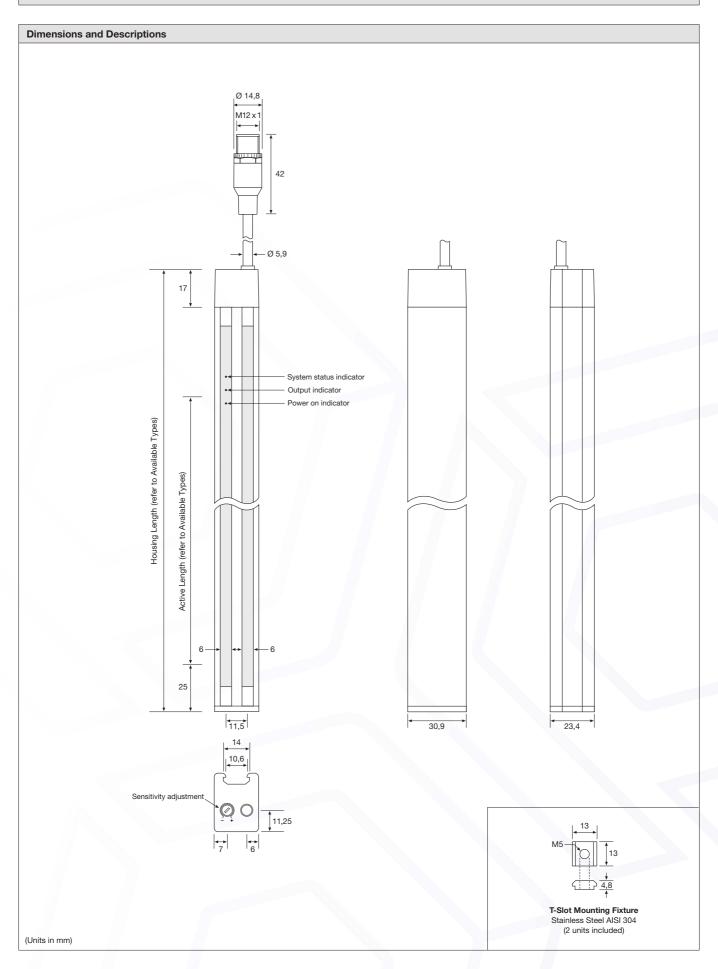
Av	ailable Types	.						
	Housing	Active	Number of	Channel	Conn	ection	0.5 m cable with 5 pin, M12 plug	Dange
	Length	Length	Channels	Spacing	Ou	tput	Order Reference	Range
	510 mm 330 mm	8	46 mm	Solid State Relay	NO (LO)	SGP 30-051-008-A1-M-08-0.5-J5	0-1,3 m	
					NC (DO)	SGP 30-051-008-A1-M-09-0.5-J5		
4	880 mm 695 mm	16			NO (LO)	SGP 30-088-016-A1-M-08-0.5-J5		
Ē					NC (DO)	SGP 30-088-016-A1-M-09-0.5-J5		
Proximity	1250 mm 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		
Diffuse	1610 mm	1010	1430 mm 32		. iolay	NO (LO)	SGP 30-161-032-A1-M-08-0.5-J5	
Ē	1610 mm	1430 mm				NC (DO)	SGP 30-161-032-A1-M-09-0.5-J5	
	1980 mm	40			NO (LO)	SGP 30-198-040-A1-M-08-0.5-J5		
	1900 111111	1000 MM	40			NC (DO)	SGP 30-198-040-A1-M-09-0.5-J5	

M12 Plug / Cable
Pin 1 / Brown
Pin 3 / Blue
Pin 2 / White
Pin 4 / Black
Pin 5 / Grey
Sensor Plug (Male) Cable Plug (Female) Blue Black 5 6 9 1 20 Brown

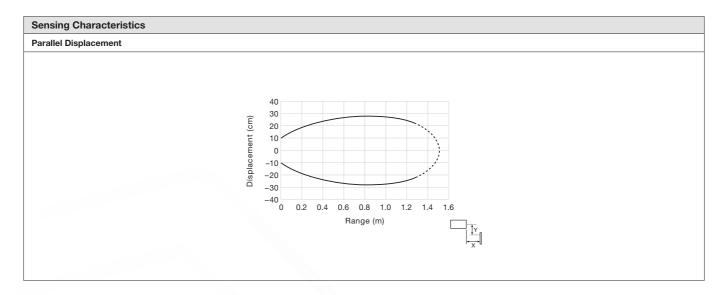


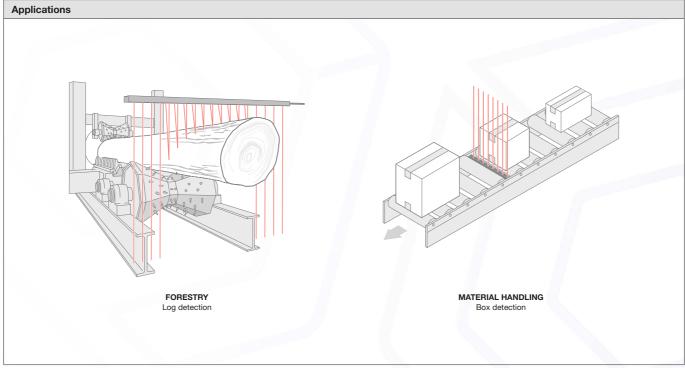


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