SPACEGUARD™ SERIES

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.

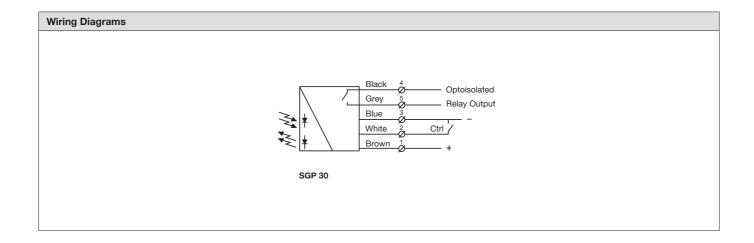
Technical Data					
Supply voltage		12-30 V dc			
Current consumption		120 mA (RMS)			
Output rating	Solid state	200 mA			
Short circuit protected		Yes			
Reverse polarity protected		Yes			
Light source		Infrared (880 nm)			
Opening angle		+/- 10°			
Number of proximity channel pairs		8, 16, 24, 32, 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			
Haveley material	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			

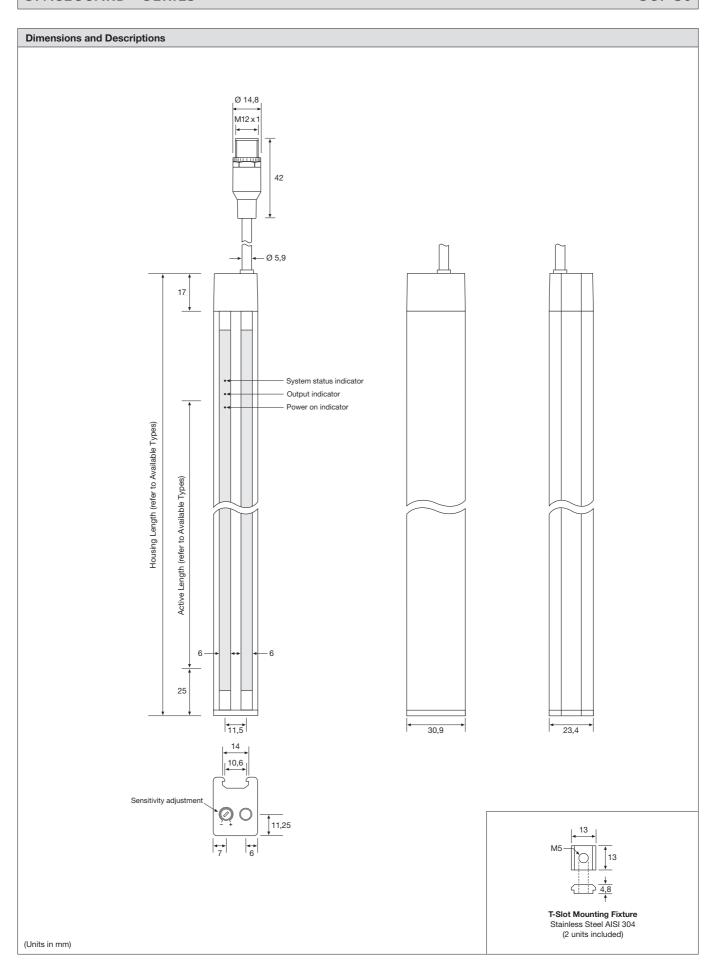
Environmental Data				
Vibration	10-55 Hz, 0,5 mm			
Shock	30 g			
Light immunity @ 5° incidence	100 000 lux			
Temperature, operation	−30 to +60 °C			
Temperature, storage	−40 to +80 °C			
Sealing class	IP 67			
Approvals	(€			



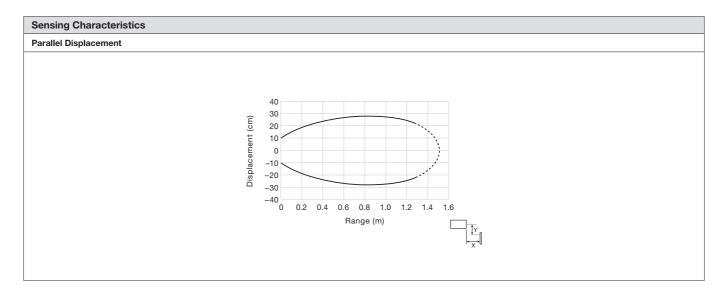
Av	Available Types							
	Housing	Active	Number of	Channel	Connection		0.5 m cable with 5 pin, M12 plug	Range
	Length	Length	Channels	Spacing Ou		itput	Order Reference	Hange
	E10 mm	330 mm	n 8			NO (LO)	SGP 30-051-008-A1-M-08-0.5-J5	0-1,3 m
	510 mm 330	330 11111	0			NC (DO)	SGP 30-051-008-A1-M-09-0.5-J5	
4	880 mm	695 mm	16			NO (LO)	SGP 30-088-016-A1-M-08-0.5-J5	
<u> </u>			16		Solid State Relay	NC (DO)	SGP 30-088-016-A1-M-09-0.5-J5	
õ	1250 mm	1065 mm	24	46		NO (LO)	SGP 30-125-024-A1-M-08-0.5-J5	
				46 mm		NC (DO)	SGP 30-125-024-A1-M-09-0.5-J5	
Lus		610 mm 1430 mm	32			NO (LO)	SGP 30-161-032-A1-M-08-0.5-J5	
ă						NC (DO)	SGP 30-161-032-A1-M-09-0.5-J5	
	1980 mm	1000 mm	1800 mm 40			NO (LO)	SGP 30-198-040-A1-M-08-0.5-J5	
	1900 111111	1000 HIIII				NC (DO)	SGP 30-198-040-A1-M-09-0.5-J5	

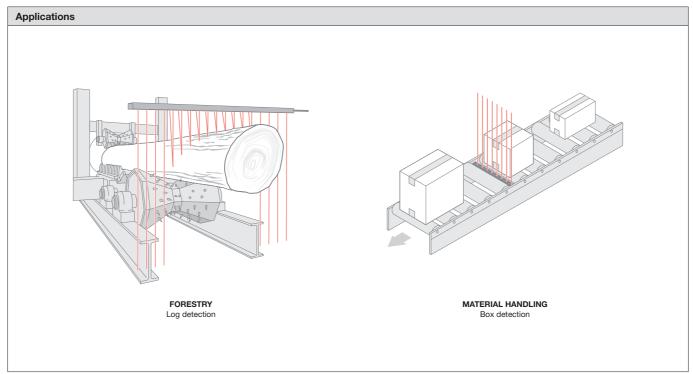
Connections		
		M12 Plug / Cable
Supply +		Pin 1 / Brown
Supply –		Pin 3 / Blue
Blanking function control input	Ctrl	Pin 2 / White
Output		Pin 4 / Black
Output		Pin 5 / Grey
		Sensor Plug Cable Plug (Male) (Female)
		Sensor Plug (Male) (Female) Sensor Plug (Male) (Female) Blue Black Black Grey Grey
		Brown White





SGP 30 SPACEGUARD™ SERIES





Telco reserves the right to change specifications without notice.

