ODATALOGIC

SINGLE BEAM SAFETY SENSORS SAFETY CONTROL UNITS



Installation Flexibility

Long distance

Low temperature with defogging function

4 safety areas controlled with one unit

Double muting

SENSORS:

- · Emitter-receiver photocells with test input
- Type 2 and Type 4 models
- Plastic tubular and MAXI formats
- Up to 50m operating distance
- Class 1 red laser emission models up to 40
- Standard M12 connectors

CONTROL UNITS:

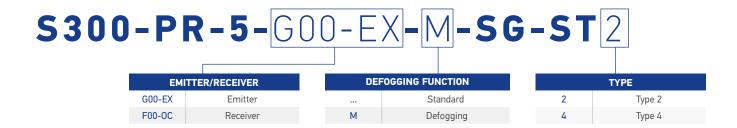
- Integrated control of 4 single beams and 2 light curtains
- Simple DIP Swicth configuration
- · Muting functions can be assigned to light curtains or single beams

APPLICATIONS

- Robots
- Automatic assembling lines
- Palletizers and Depalletizers







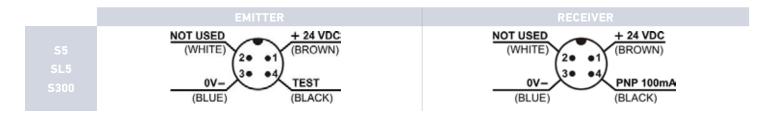
TECHNICAL DATA

			S300
	GENE	ERAL DATA	
Format	M18 Tubular Rectangular		Rectangular
Light Emission	Infrared LED 880 nm	Class 1 Red laser (650 nm)	Infrared LED 880 nm
Type (EN61496-1)	2/4 depending on model	4	2/4 depending on model
Effective Aperture Angle (EN61496-2)	-/+ 2.5° for Type 4 models -/+ 5° for Type 2 models		
Operating distance	0 8 m	0 40 m	0 50 m (S300ST2) 9 40 m (S300ST4)
	ELECT	RICAL DATA	
Power supply (Vdc)	24 Vdc ± 15%		
Outputs	PNP (short circuit protection)		
Output current	100 mA max.		
Response time	1 ms max.		
	MECHANICAL AND	ENVIRONMENTAL DATA	
Operating temperature	-25 55°C	-10 50 °C	-40 55 °C
Mechanical protection (EN 60529)	IP 67		

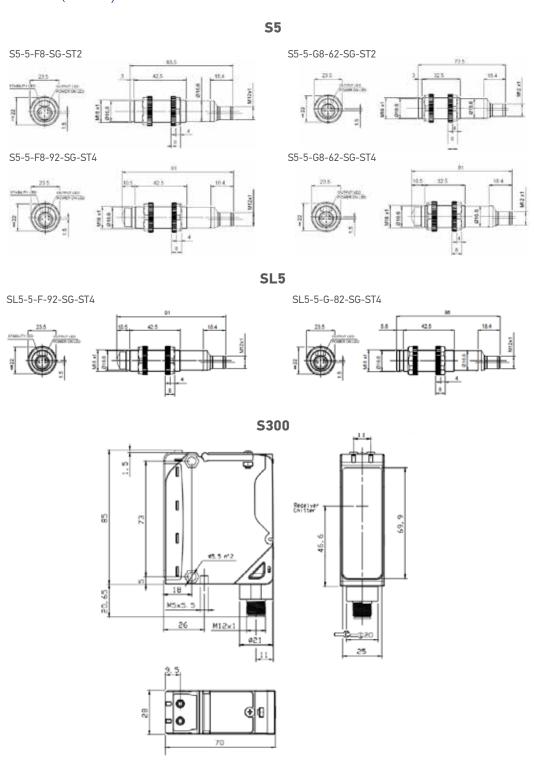
	SG-BWS-T4	SG-BWS-T4-MT
	GENERAL DATA	
PL (EN ISO 13849-1)	е	
SIL (IEC 61508)	3	
	ELECTRICAL DATA	
Power supply	24 Vdc -15/+10%	
PNP Outputs from S5/SL5/S300	4	4
OSSDs couples from SLC		2
Muting inputs		4
Test, Reset, Override, EDM, Muting enable, Auto/Man Selector	3	9
Safety outputs	2 PNP	2 NO
Muting lamps		2
Test outputs	4	4
Response time ^A	29 ms	39 ms
Nesponse time	MECHANICAL AND ENVIRONMENTAL	
Operating temperature		0 +55°C
Humidity	15 95 % (no condensation)	
Mechanical protection		IP20
	FUNCTIONS ^B	
		atic/Manual reset
		Device Monitoring
		L/T Muting
		Double muting
		Muting Enable
		Muting timeout
		Override
	COMPATIBILITY	
Single beam photocells	S5/SL5/S300	
Safety light curtains		All DATALOGIC SLC

 $^{^{\}rm B}$ Functions setting is done through DIP switches in SG-BWS-T4-MT and through wiring in SG-BWS-T4

CONNECTIONS



DIMENSIONS (mm)



ACCESSORIES

MODEL	DESCRIPTION	ORDER NUMBER
SP-40	Fixed support for tubular M18 sensors	95ACC1370
SWING-18	Adjustable support for plastic tubular M18 sensors	895000006
MICRO-18	Support with micrometric regulation for tubular M18 sensors	95ACC1380
ST-5099	S300 Fixed bracket	95ACC2830
ST-5100	S300 Fixed bracket	95ACC2840
DataVS-MK-01	S300 Mounting kit	95A901380

ORDER CODES

SAFETY CONTROL UNITS			
MODEL	DESCRIPTION	ORDER NUMBER	
SG-BWS-T4	Safety control unit pl=e auto/man edm	957051000	
SG-BWS-T4-MT	Safety control unit pl=e double muting	957051010	

SINGLE BEAM SAFETY SENSORS				
	TYPE	MODEL	EMITTER/RECEIVER	ORDER NUMBER
S5 -	2	S5-5-G8-62-SG-ST2	Emitter	952051870
		S5-5-F8-92-SG-ST2	Receiver	952051890
	4	S5-5-G8-62-SG-ST4	Emitter	952051910
		S5-5-F8-92-SG-ST4	Receiver	952051930
SL5	,	SL5-5-G-82-SG-ST4	Emitter	952501160
	4	SL5-5-F-92-SG-ST4	Receiver	952501170
	2	S300-PR-5-G00-EX-SG-ST2	Emitter	951451320
S300		S300-PR-5-F00-0C-SG-ST2	Receiver	951451340
5300	4	S300-PR-5-G00-EX-SG-ST4	Emitter	951451360
		S300-PR-5-F00-OC-SG-ST4	Receiver	951451380
S300 DEFOGGING	2	S300-PR-5-G00-EX-M-SG-ST2	Emitter	951451330
		S300-PR-5-F00-0C-M-SG-ST2	Receiver	951451350
	,	S300-PR-5-F00-OC-M-SG-ST4	Emitter	951451390
	4	S300-PR-5-G00-EX-M-SG-ST4	Receiver	951451370

¹⁾ The photocells listed above are certified and must be used only with safety control units SG-BWS-T4 and SG-BWS-T4-MT.

Neither technical and functioning compatibility nor certifications are guaranteed if they are used with other brand control units or old/obsolete DATALOGIC control units.

CABLE ORDER CODES

MODEL	DESCRIPTION	ORDER NUMBER
CS -A1-02-U-03	4-pole M12 cable (axial) 3 m	95ASE 1120
CS -A1-02-U-05	4-pole M12 cable (axial) 5 m	95ASE 1130
CS -A1-02-U-10	4-pole M12 cable (axial) 10 m	95ASE 1140
CS -A1-02-U-15	4-pole M12 cable (axial) 15 m	95ASE 1150
CS -A1-02-U-25	4-pole M12 cable (axial) 25 m	95ASE 1160

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