



S300-SG-ST

HEAVY DUTY SAFETY SENSOR FOR HARSH ENVIRONMENTS AND LONG DISTANCES.

Photoelectric safety sensor to be used in combination with safety units SG-BWS

- Emitter-receiver photocells with test input
- Type 2 and Type 4 models



- Standard M12 connectors
- Infrared emission
- Distances reaching 40 m, 50 m
- Plastic rectangular format



CODE DESCRIPTION

	S300	-	P	R	-	5	-	G	0	0	-	EX	-	M	-	SG	-	ST2
series	S300	Photoelectric sensor																
housing	P	Plastic housing																
emission	R	Radial LED emission																
connector	5	M12-4 pins round connector																
optic function	F	Through Beam Receiver																
	G	Through Beam Emitter																
distance	0	Standard distance																
adjustments	0	no adjustment																
I/O type	EX	Emitter w/ TEST input (only DC)																
	OC	Opto Coupled Output																
defogging function	...	Absent																
	M	Defogging																
safety	SG	Safety sensor when connected with SG-BWS units																
type	ST2	Type 2																
	ST4	Type 4																

TECHNICAL SPECIFICATIONS

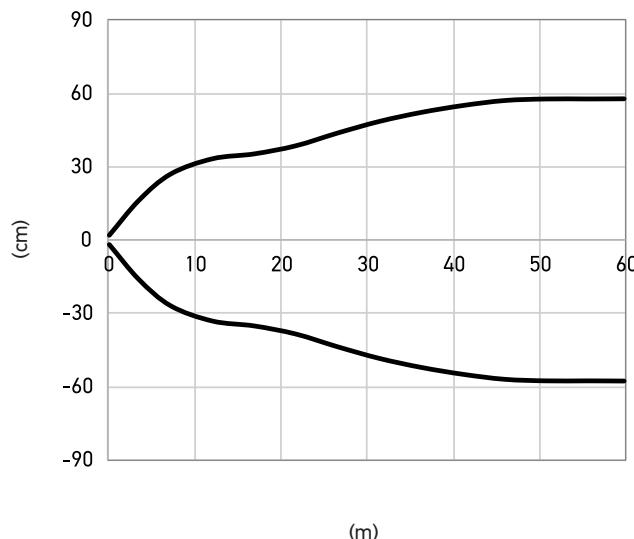
	S300-PR-5-F/G00-**-*-SG-ST2	S300-PR-5-F/G00-**-*-SG-ST4
	 	 
GENERAL DATA		
Operating principle	Emitter, Receiver	
	°C	
Control units to be used	SG-BWS-T4 Series	
MONITORED AREA		
Nominal sensing distance	0 ... 50 m	0 ... 40 m
Controlled height		
EMISSION DATA		
Emission	LED Infrared	
Effective beam angle	≤ ±5 °	≤ ±2.5 °
SAFETY PARAMETERS		
Type	2	4
INPUT/OUTPUT		
Output type	PNP	
HMI/UI		
LED indicators	Green (Power ON)	
ELECTRICAL DATA		
Supply voltage	24 Vdc ±15%	
MECHANICAL DATA		
Dimensions	105.6 x 25 x 70 mm	
Material	Plastic - PBT / PC	
Housing material	PBT Fiber Glass reinforced	
Active part material	PMMA	
Connections	M12 M12 plug	
CERTIFICATIONS		
Shocks	16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)	
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6)	
ENVIRONMENTAL DATA		
Operating Temperature	-40 ... 55 °C (Without freeze)	
Storage temperature max.	-40 ... 70 °C	
Mechanical Protection	IP67	
Shocks and vibrations	IEC60068-2-6	
Ambient light immunity	according to EN 60947-5-2 : 2020	

AVAILABLE MODELS

Type	Functions	Nominal sensing distance	Model
2	Emitter	LED Infrared Emitter 0 ... 50 m	S300-PR-5-G00-EX-SG-ST2 (951451320)
4		LED Infrared Emitter 0 ... 40 m	S300-PR-5-G00-EX-SG-ST4 (951451360)
2	Emitter with defogging	LED Infrared Emitter 0 ... 50 m	S300-PR-5-G00-EX-M-SG-ST2 (951451330)
4		LED Infrared Emitter 0 ... 40 m	S300-PR-5-G00-EX-M-SG-ST4 (951451370)
2	Receiver	n/a Receiver 0 ... 50 m	S300-PR-5-F00-OC-SG-ST2 (951451340)
4		n/a Receiver 0 ... 40 m	S300-PR-5-F00-OC-SG-ST4 (951451380)
2	Receiver with defogging	n/a Receiver 0 ... 50 m	S300-PR-5-F00-OC-M-SG-ST2 (951451350)
4		n/a Receiver 0 ... 40 m	S300-PR-5-F00-OC-M-SG-ST4 (951451390)

RESPONSE DIAGRAMS

S300-PR-*-F**-**; S300-PR-*-G**-** Through beam



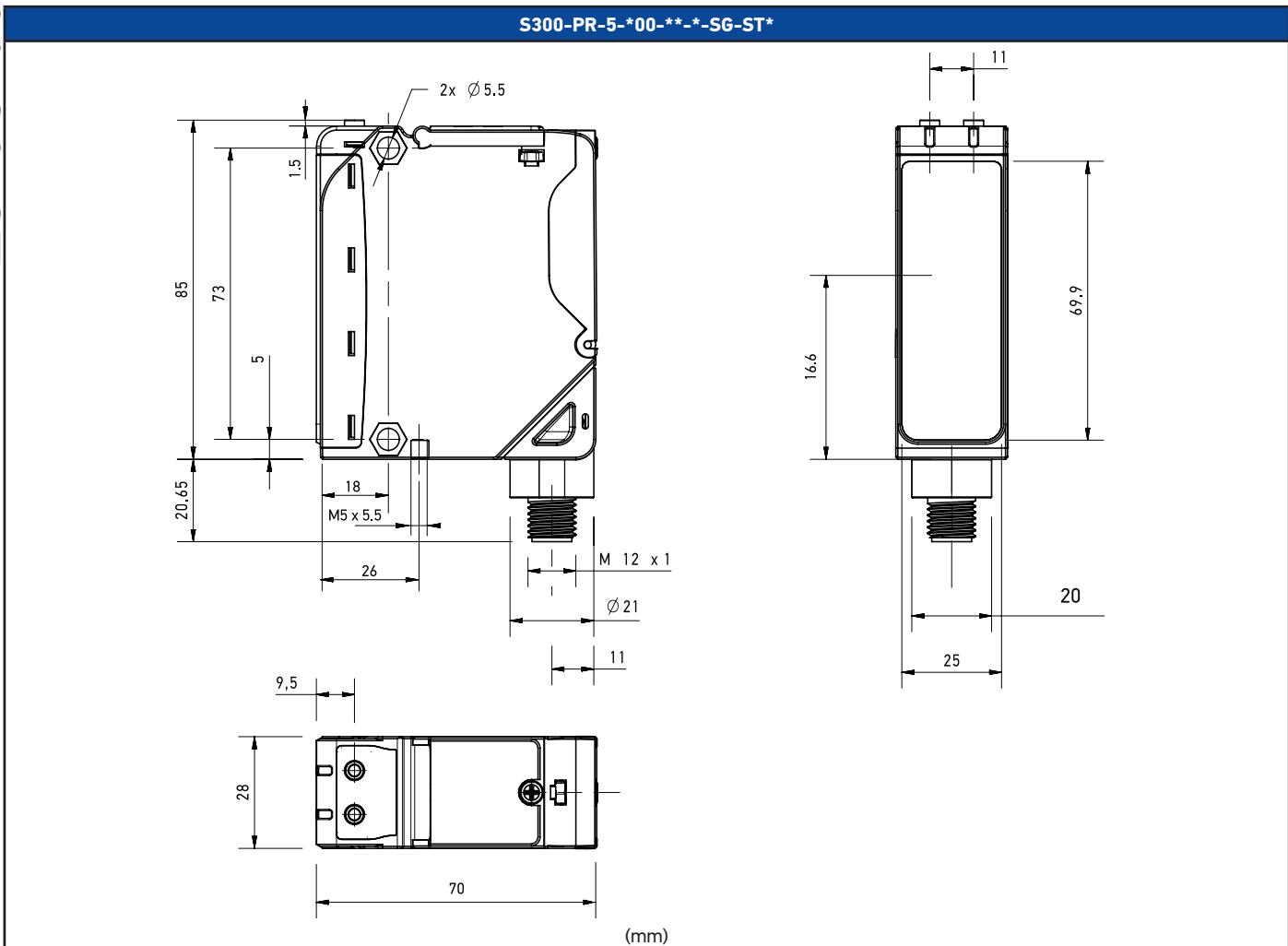
CONNECTIONS

S300-PR-5-G00-EX-**-ST* (Emitter)		S300-PR-5-F00-OC-**-ST* (Receiver)	
<p>MALE M12 4 pins Safety Sin- gle Beam Emitter</p>	<p>24 Vdc</p> <p>NOT USED</p> <p>0 V</p> <p>Test</p>	<p>MALE M12 4 pins Safety Single Beam Receiver</p>	<p>24 Vdc</p> <p>NOT USED</p> <p>0 V</p> <p>PNP 100 mA</p>

MECHANICAL DRAWINGS

S300-SG-ST

SAFETY SENSORS



ACCESSORIES TO BE ORDERED SEPARATELY

	Model	Description	Article code
Cables	CS-A1-02-U-03	Cable M12 4 poles axial female unshielded 3m UL 2464	95ASE1120
	CS-A1-02-U-05	Cable M12 4 poles axial female unshielded 5m UL 2464	95ASE1130
	CS-A1-02-U-10	Cable M12 4 poles axial female unshielded 10m UL 2464	95ASE1140
	CS-A1-02-U-15	Cable M12 4 poles axial female unshielded 15m UL 2464	95ASE1150
	CS-A1-02-U-25	Cable M12 4 poles axial female unshielded 25m UL 2464	95ASE1160
Mounting brackets	ST-5099	ST-5099 = Fixing bracket S300	95ACC2830
	ST-5100	ST-5100 = Fixing bracket S300	95ACC2840

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