






# S300-SG-ST TECHNICAL SPECIFICATIONS

SAFETY SENSORS

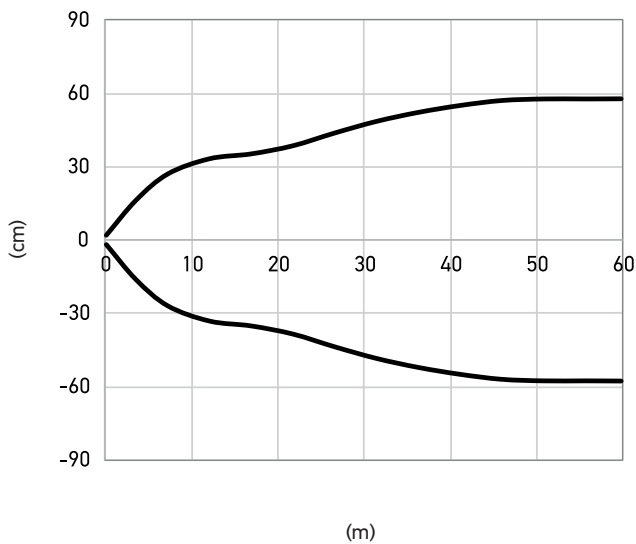
	S300-PR-5-F/G00-**-*-SG-ST2	S300-PR-5-F/G00-**-*-SG-ST4
	 	 
<b>GENERAL DATA</b>		
Operating principle	Emitter, Receiver	
	°C	
Control units to be used	SG-BWS-T4 Series	
<b>MONITORED AREA</b>		
Nominal sensing distance	0 ... 50 m	0 ... 40 m
Controlled height		
<b>EMISSION DATA</b>		
Emission	LED Infrared	
Effective beam angle	≤ ±5 °	≤ ±2.5 °
<b>SAFETY PARAMETERS</b>		
Type	2	4
<b>INPUT/OUTPUT</b>		
Output type	PNP	
<b>HMI/UI</b>		
LED indicators	Green (Power ON)	
<b>ELECTRICAL DATA</b>		
Supply voltage	24 Vdc ±15%	
<b>MECHANICAL DATA</b>		
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	
<b>CERTIFICATIONS</b>		
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, 1 octave/min (EN 60068-2-6)	
<b>ENVIRONMENTAL DATA</b>		
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

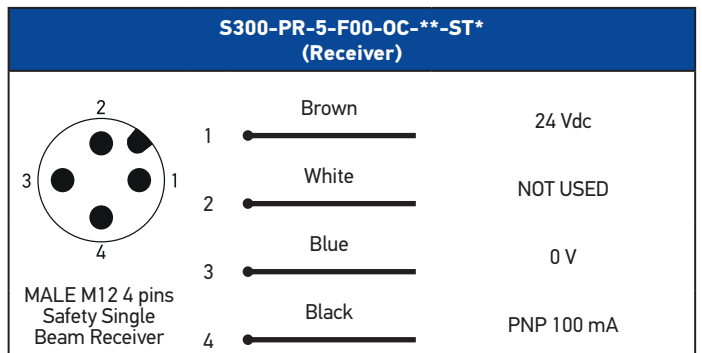
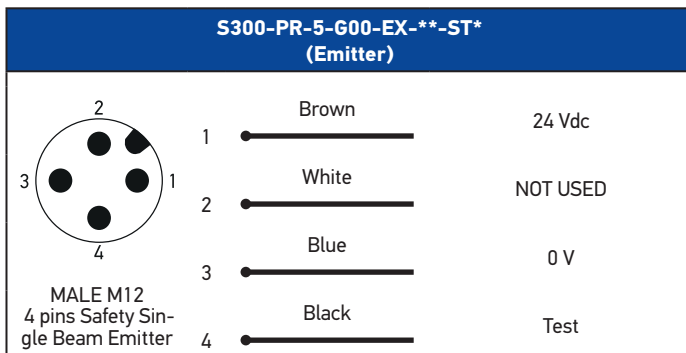
Type	Functions	Nominal sensing distance	Model
2	Emitter	LED Infrared Emitter 0 ... 50 m	<b>S300-PR-5-G00-EX-SG-ST2</b> (951451320)
4		LED Infrared Emitter 0 ... 40 m	<b>S300-PR-5-G00-EX-SG-ST4</b> (951451360)
2	Emitter with defogging	LED Infrared Emitter 0 ... 50 m	<b>S300-PR-5-G00-EX-M-SG-ST2</b> (951451330)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

## RESPONSE DIAGRAMS

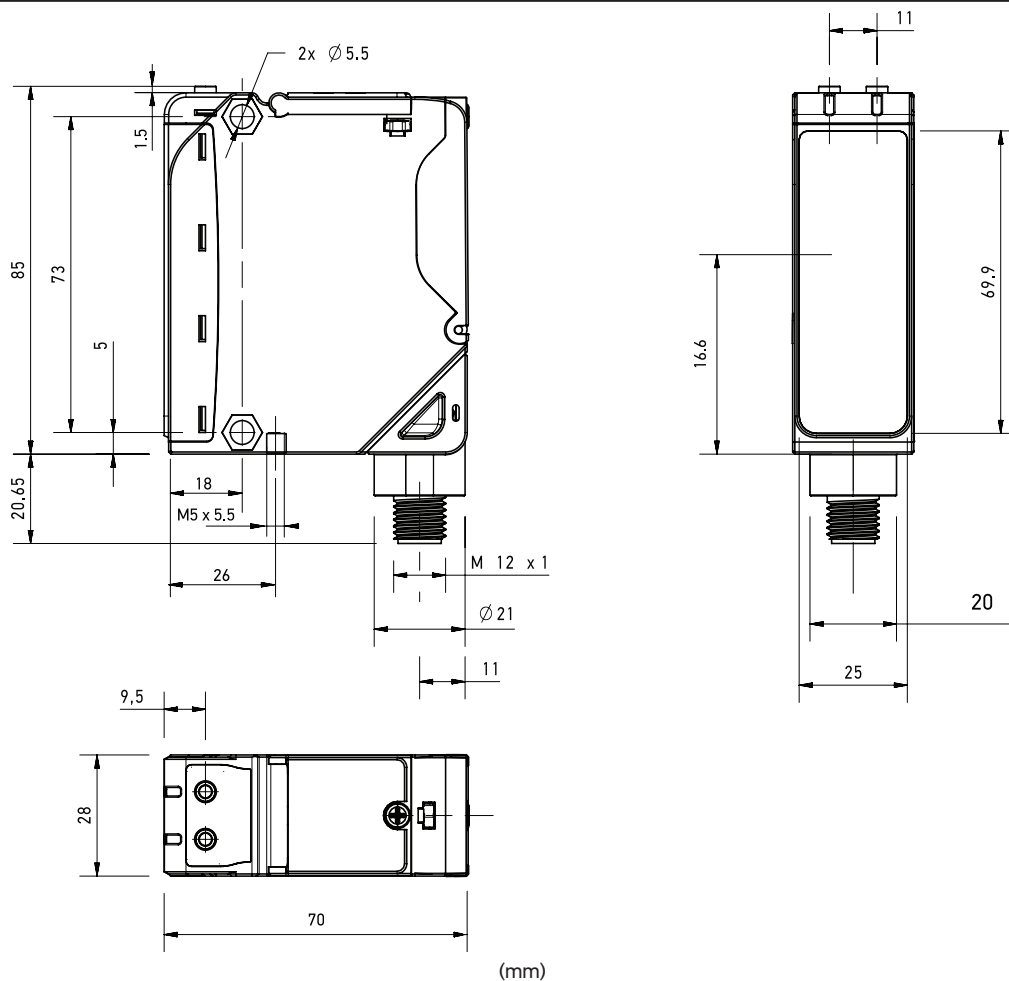
S300-PR-\* -F\*\*-\*; S300-PR-\* -G\*\*-\* Through beam



## CONNECTIONS



S300-PR-5-\*00-\*\*-\*-SG-ST\*



## ACCESSORIES TO BE ORDERED SEPARATELY

	Model	Description	Article code
<b>Cables</b>	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
<b>Mounting brackets</b>	ST-5099	ST-5099 = Fixing bracket S300	95ACC2830
	ST-5100	ST-5100 = Fixing bracket S300	95ACC2840

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