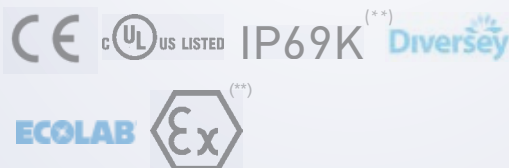


S8**DATALOGIC**

COMPACT SIZE AND HIGH PERFORMANCE FOR THE MOST CHALLENGING DETECTION APPLICATIONS LINKED TO YOUR INDUSTRY 4.0 APPLICATIONS

- Compact dimensions (14x42x25 mm)
- Background suppression for transparent and shiny objects
- Contrast sensors up to 25 kHz switching frequency
- Extremely focused spot, under 1 mm (LASER model)
- Very high resolution LASER models
- INOX AISI 316L model
- Extended IO-Link parametrization with counter
- All output fully PNP/NPN/PP IO-Link configurable
- IO-link COM2
- IO-Link dual channel with no jitter addition

APPLICATIONS

- Processing and Packaging machinery
- Beverage/Food/ Cosmetics/Pharmaceutical industries
- Electronics assembling

(**) Stainless steel models.
ATEXII 3DG

S8		
Through beam		0...25 m
Polarized retroreflective		0,1...5 m
Polarized retroreflective (coaxial)		0...10 m (class 1 LASER - B51,B53...OZ)
Retroreflective for transparent (coaxial)		0...0,8 m (T51), 0...2 m (T53...OZ, T50)
Diffuse proximity		0...500 mm
Background suppression		50...300 mm
Background suppression for clear detection		20...200 mm (class 1 LASER)
		100...300 mm (LED)
		50...150 mm (class 1 LASER)
Contrast sensor		10 mm (Wxx, W03...OZ)
Luminescence sensor		10...30 mm (U03, U03...OZ)
Power supply	Vdc	12...30 V
	Vac	
	Vac/dc	
	PNP	•
Output	NPN	•
	NPN/PNP	IO-Link PNP/NPN/Push Pull (S8...B53/T53/W03/U03...OZ)
	relay	
	other	IO-Link dual channel COM2 2,3ms cycle time
Connection	cable	•
	connector	•
	pig-tail	•
Approximate dimensions (mm)		14x42x25
Housing material		ABS, Stainless Steel AISI 316L
Mechanical protection		IP69K (Stainless Steel AISI 316L vers.), IP67

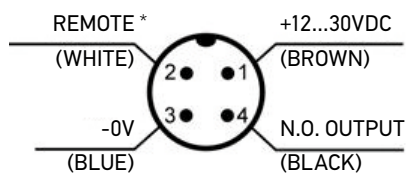
TECHNICAL DATA

Power supply	12 ... 30 Vdc (battery inversion protected)
Ripple	2 Vpp max.
Consumption (output current excluded)	30 mA; 35 mA (mod. S8...M01); 20 mA (mod. S8...F), 15 mA (mod. S8...G) max.; 40mA max. all IO-Link Models red LED 660 nm (mod. S8...B01/C/M/G/T)
Light emission	RGB LEDs: blue 465 nm, green 520 nm, red 630nm with automatic selection (mod. S8...W)
	UV LED 375 nm (mod. S8...U)
	red Laser 645..665 nm (mod. S8...B51/B53/M) Class 1
Sensitivity Setting	8-turn distance adjustment trimmer (mod. S8...M53/M)
	teach-in push button (mod. S8...B53/B53...OZ/M53/W03/W03...OZ/W13/T53/T53...OZ/U03/U03...OZ)
	remote input (mod. S8...M53)
	mono-turn trimmer (mod. S8...B01/C/F/M/T51)
Operating mode	automatic auto adjustment (mod. S8...W/T50)
	remote input (mod. S8...M53)
	LIGHT / DARK mono-turn trimmer (mod. S8...B/C/F/T51/T53/U)
Indicators	yellow OUTPUT LED (all models excl. mod. S8...G), OUTPUT/ALARM LED (mod. S8...M53/M/C)
	green POWER LED
Output	PNP or NPN N.O. ; PNP/NPN/Push Pull fully configurable outputs for all IO-Link models (S8...B53/T53/W03/U03...OZ)
Output current	100 mA (overload protection and short circuit)
Saturation voltage	2 V max.
Response time	1 ms (mod. S8...M53/M)
	500 µs (mod. S8...B/F/C)
	250 µs (mod. S8...T/T53...OZ IO-Link)
	100 µs (Laser vers. mod. S8...M)
	50 µs (mod. S8...W00/W03/W03...OZ IO-Link and Laser mod. S8...B51/B53...OZ IO-Link)
	20 µs (mod. S8...W13)
	250 µs...1 ms (mod. S8...U) and U03...OZ IO-Link
Switching frequency	500 Hz (mod. S8...M53/M)
	1 kHz (mod. S8...B/F/C)
	2 kHz (mod. S8...T/T53...OZ IO-Link)
	5 kHz (Laser vers. mod. S8...M)
	10kHz (mod. S8...W00/W03/W03...OZ IO-Link and Laser mod. S8...B51/B53...OZ IO-Link)
	25 kHz (mod. S8...W13)
	500 Hz...2 kHz (mod. S8...U) and U03...OZ IO-Link
Communication	IO-Link COM2 V1.1.2 2,3ms cycle time
Connection	M8 4-pole connector, 150 mm length Ø 4 mm cable with M12 4-pole connector (pig-tail vers.)
Dielectric strength	1500 VAC 1 min between electronic parts and housing
Insulating resistance	>20 MΩ 500 VDC between electronic parts and housing
Mechanical protection	IP67, IP69K (mod. S8-M)
Ambient light rejection	according to EN 60947-5-2
Vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
Shock resistance	11 ms (30 G) 6 shocks per every axis (EN60068-2-27)
Housing material	ABS, Stainless Steel AISI 316L
Optical window material	window in PMMA; lens in PC
Operating temperature	-10 ... 55 °C
Storage temperature	-20 ... 70 °C
Weight	12 g max. conn. vers., 50 g pig-tail vers., 70 g max. (mod. S8-M)

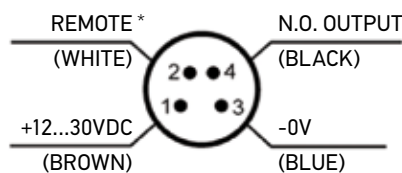
CONNECTIONS

STANDARD MODELS

M12 PIGTAIL

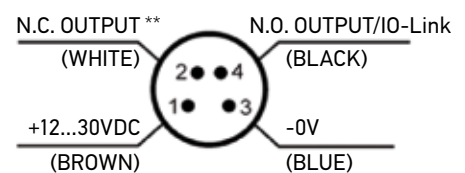


M8 CONNECTOR



IO-LINK MODELS (M8 CONNECTOR ONLY)

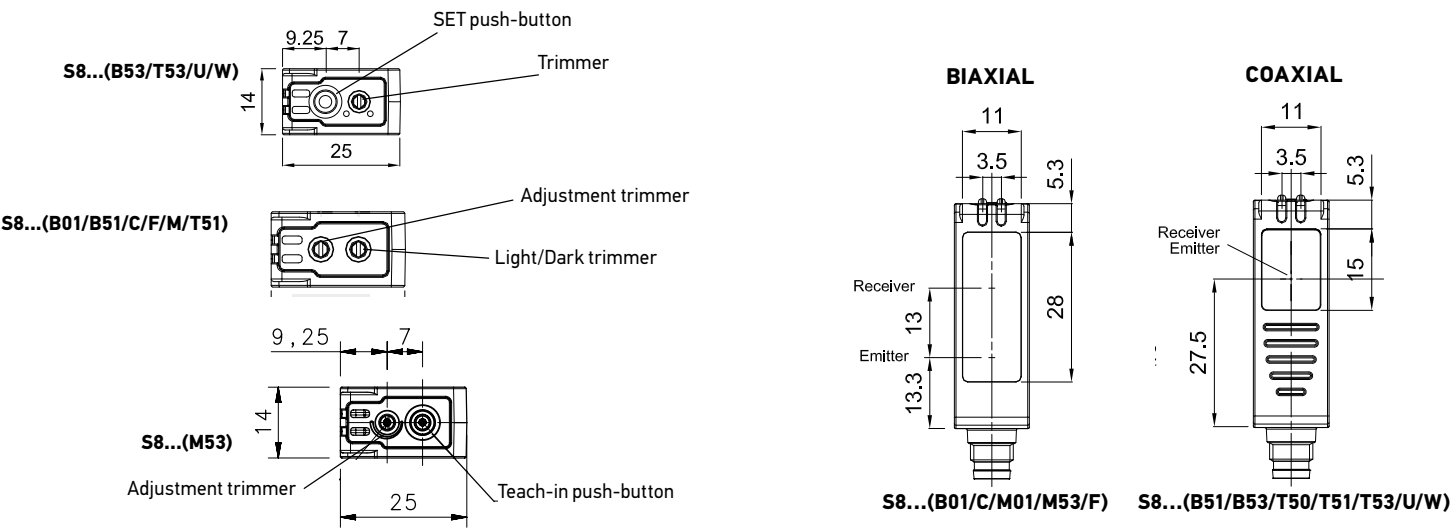
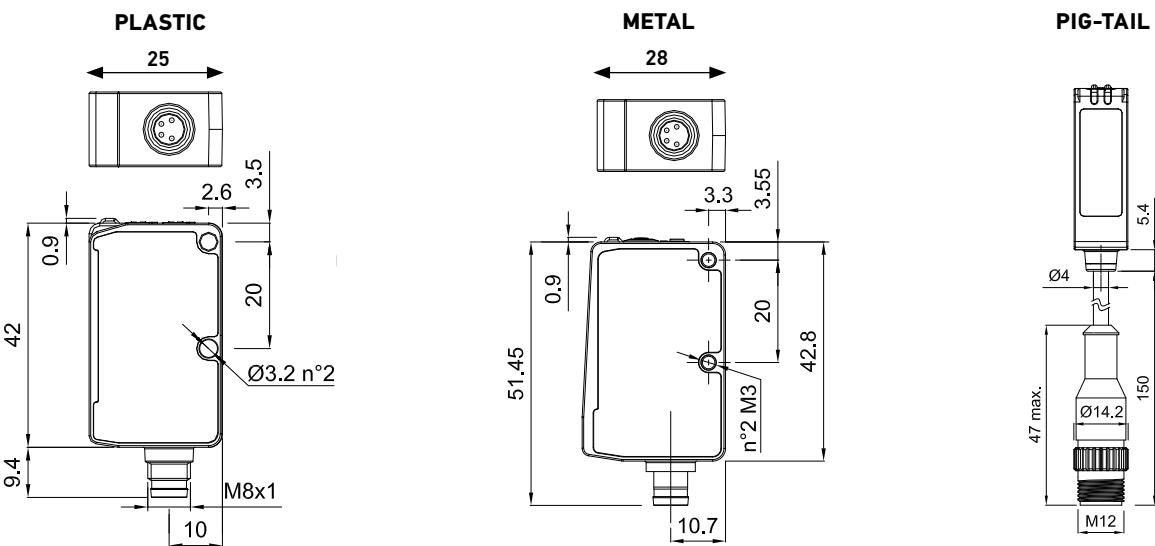
M8 CONNECTOR



* REMOTE INPUT (mod. S8...W, U, T50, T53), LIGHT / DARK INPUT (mod. S8...M53), DELAY (mod. S8...M Laser), TEST INPUT (mod. S8...G), ALARM OUTPUT (mod. S8...B, T51), NOT USED (mod. S8...C, M, F)

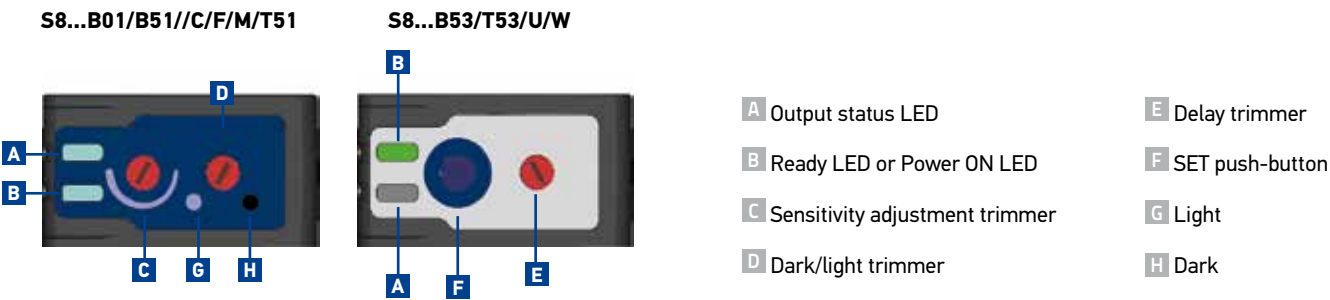
** Fully configurable I/O Pin input or output by IO-Link setting

DIMENSIONS



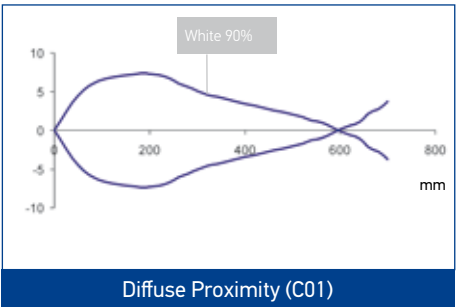
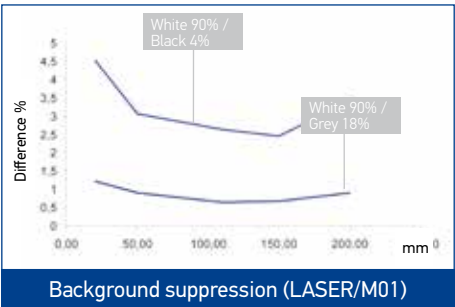
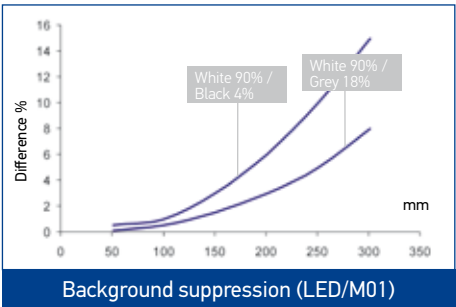
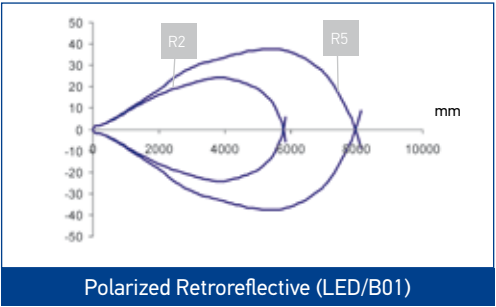
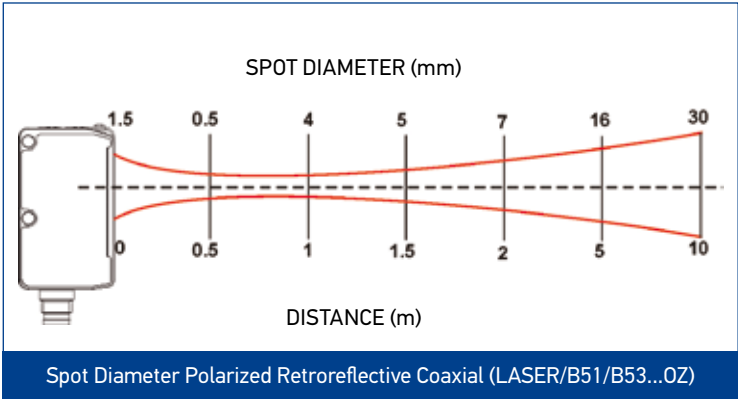
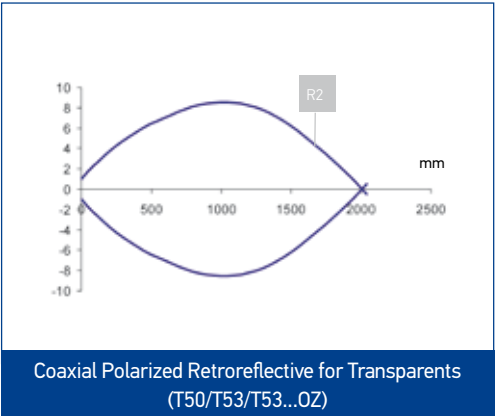
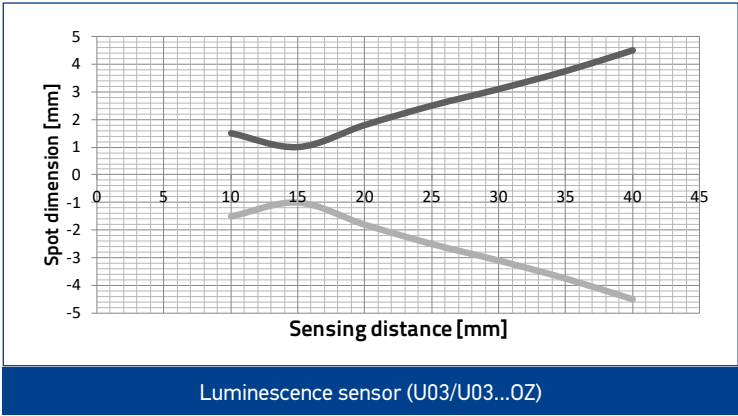
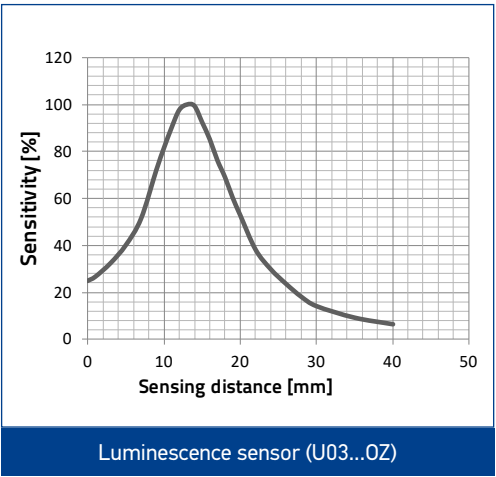
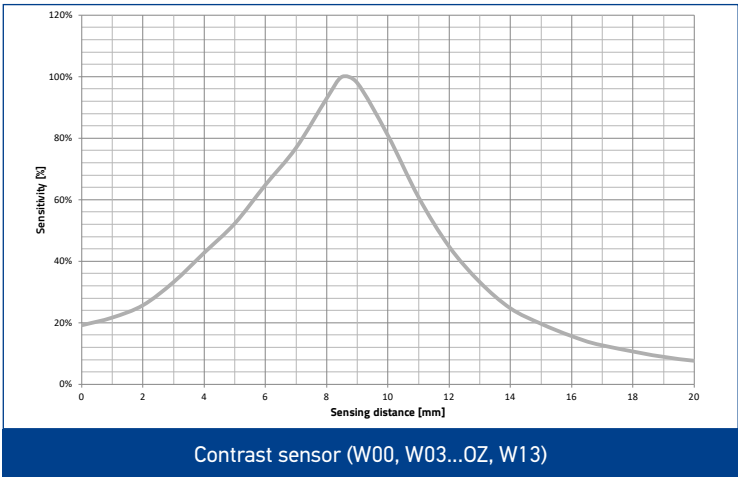
Note : T50 has no settings, only indicators

INDICATOR AND SETTING



Note : T50 has no settings, only indicators

READING DIAGRAMS



MODEL SELECTION AND ORDER INFORMATION

CLEAR DETECTION						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL	Axial	LASER	M8 connector	PNP	S8-MH-5-M53-PP	950801451
Stainless Steel (INOX AISI 316L)		LED			S8-MR-5-M53-PP	950801600
PLASTIC		LASER			S8-PH-5-M53-PP	950801381
		ABS			LED	S8-PR-5-M53-PP

RETROREFLECTIVE FOR TRASPARENT						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Coaxial	LED	M8 connector	NPN	S8-MR-5-T50-NH	950801330
				PNP	S8-MR-5-T50-PH	950801320
			M8 connector	NPN	S8-MR-5-T53-NN	950801310
				PNP	S8-MR-5-T53-PP *	950801300
PLASTIC ABS			pig-tail	NPN	S8-PR-3-T51-NN	950801130
				PNP	S8-PR-3-T51-PP	950801120
			M8 connector	PNP/NPN/Push Pull	S8-PR-5-T53-OZ  IO-Link	950800005
			M8 connector	NPN	S8-PR-5-T51-NN	950801050
				PNP	S8-PR-5-T51-PP	950801040
			M8 connector	NPN	S8-PR-5-T53-NN	950801290
	PNP	S8-PR-5-T53-PP *		950801280		

*Note: With Auto adaptive function

POLARIZED RETROREFLECTIVE						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Coaxial	LASER	M8 connector	NPN	S8-MH-5-B51-NN	950801490
				PNP	S8-MH-5-B51-PP	950801480
	Axial	LED		NPN	S8-MR-5-B01-NN	950801420
				PNP	S8-MR-5-B01-PP	950801410
PLASTIC ABS	Coaxial	LASER	pig-tail	NPN	S8-PH-3-B51-NN	950801090
				PNP	S8-PH-3-B51-PP	950801080
			M8 connector	NPN	S8-PH-5-B51-NN	950801010
				PNP	S8-PH-5-B51-PP	950801000
	Axial	LED	pig-tail	PNP/NPN/Push Pull	S8-PH-5-B53-OZ  IO-Link	950800006
				NPN	S8-PR-3-B01-NN	950801190
			M8 connector	PNP	S8-PR-3-B01-PP	950801180
				NPN	S8-PR-5-B01-NN	950801170
				PNP	S8-PR-5-B01-PP	950801160

BACKGROUND SUPPRESSION						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Axial	LASER	M8 connector	NPN	S8-MH-5-M01-NN	950801470
				PNP	S8-MH-5-M01-PP	950801460
		LED		NPN	S8-MR-5-M01-NN	950801400
				PNP	S8-MR-5-M01-PP	950801390
PLASTIC ABS		LASER	pig-tail	NPN	S8-PH-3-M01-NN	950801110
				PNP	S8-PH-3-M01-PP	950801100
			M8 connector	NPN	S8-PH-5-M01-NN	950801030
				PNP	S8-PH-5-M01-PP	950801020
		LED	pig-tail	NPN	S8-PR-3-M01-NN	950801230
				PNP	S8-PR-3-M01-PP	950801220
			M8 connector	NPN	S8-PR-5-M01-NN	950801210
				PNP	S8-PR-5-M01-PP	950801200

THROUGH BEAM						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Axial	LED	M8 connector	NPN	S8-MR-5-F01-NN	950801570
				PNP	S8-MR-5-F01-PP	950801560
				emitter	S8-MR-5-G00-XG	950801580
PLASTIC ABS			pig-tail	NPN	S8-PR-3-F01-NN	950801530
				PNP	S8-PR-3-F01-PP	950801520
				emitter	S8-PR-3-G00-XG	950801550
			M8 connector	NPN	S8-PR-5-F01-NN	950801510
				PNP	S8-PR-5-F01-PP	950801500
				emitter	S8-PR-5-G00-XG	950801540

DIFFUSE						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Axial	LED	M8 connector	NPN	S8-MR-5-C01-NN	950801440
				PNP	S8-MR-5-C01-PP	950801430
PLASTIC ABS			pig-tail	NPN	S8-PR-3-C01-NN	950801270
				PNP	S8-PR-3-C01-PP	950801250
			M8 connector	NPN	S8-PR-5-C01-NN	950801260
				PNP	S8-PR-5-C01-PP	950801240

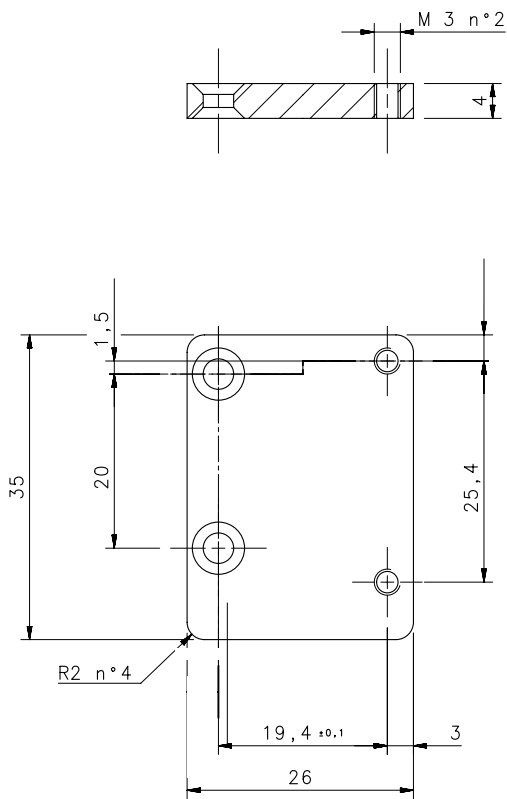
CONTRAST (RGB LED EMISSION LIGHT)						
HOUSING	OPTIC TYPE	SWITCHING FREQUENCY	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Coaxial	10 kHz	M8 connector	PNP	S8-MR-5-W00-PH *	950801360
				NPN	S8-MR-5-W00-NH *	950801370
				PNP	S8-MR-5-W03-PP	950801340
				NPN	S8-MR-5-W03-NN	950801350
PLASTIC ABS			M12 pig-tail (150 mm)	PNP	S8-PR-3-W03-PP	950801140
				NPN	S8-PR-3-W03-NN	950801150
			M8 connector	PNP	S8-PR-5-W03-PP	950801060
				NPN	S8-PR-5-W03-NN	950801070
		PNP/NPN/Push Pull  IO-Link		S8-PR-5-W03-OZ	950800004	
		25 kHz		M8 connector	PNP	S8-MR-5-W13-PP
			NPN		S8-MR-5-W13-NN	950801680
			PNP		S8-PR-5-W13-PP	950801650
NPN	S8-PR-5-W13-NN		950801660			
M12 pig-tail (150 mm)	PNP		S8-PR-3-W13-PP	950801690		
	NPN		S8-PR-3-W13-NN	950801700		

*Note: Without regulation

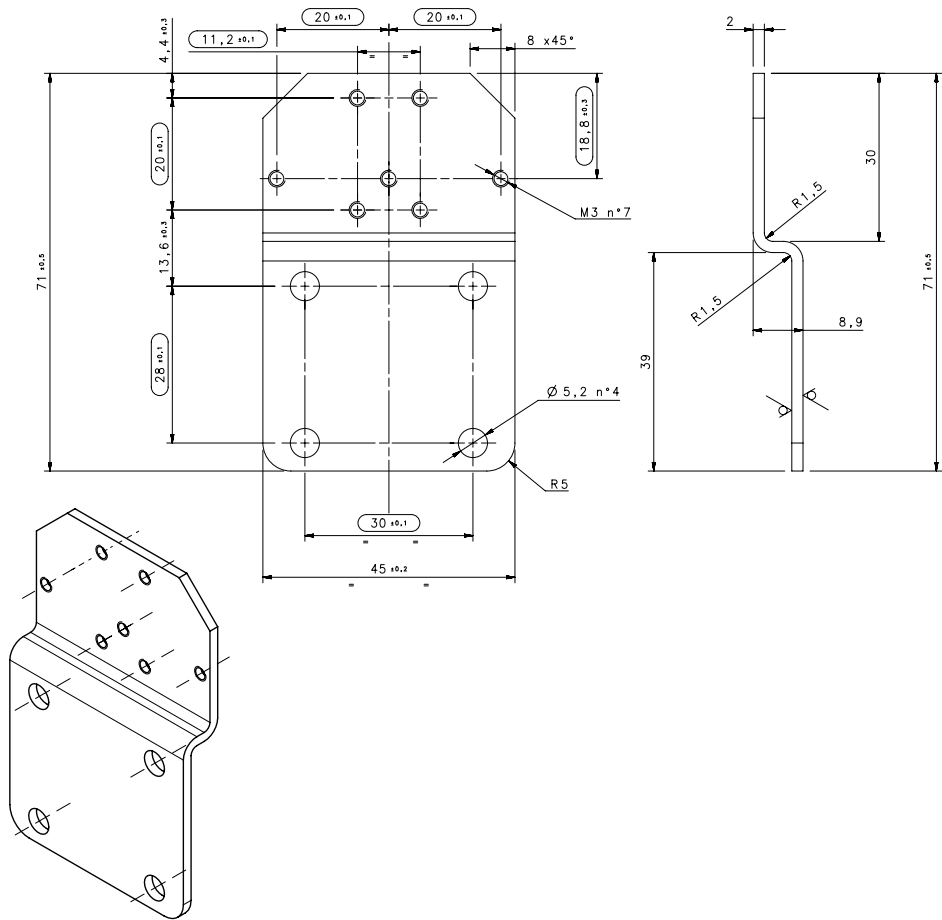
LUMINESCENCE (UV LED EMISSION LIGHT)						
HOUSING	OPTIC TYPE	SETTINGS	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Coaxial	Teach-in push-button; L/D trimmer selector; Remote Input	M8 connector	PNP	S8-MR-5-U03-PP	950801630
PLASTIC ABS				NPN	S8-MR-5-U03-NN	950801640
				PNP	S8-PR-5-U03-PP	950801610
				NPN	S8-PR-5-U03-NN	950801620
			PNP/NPN/Push Pull 	S8-PR-5-U03-OZ	950800007	
			pig-tail	PNP	S8-PR-3-U03-PP	950801710
				NPN	S8-PR-3-U03-NN	950801720

ACCESSORIES

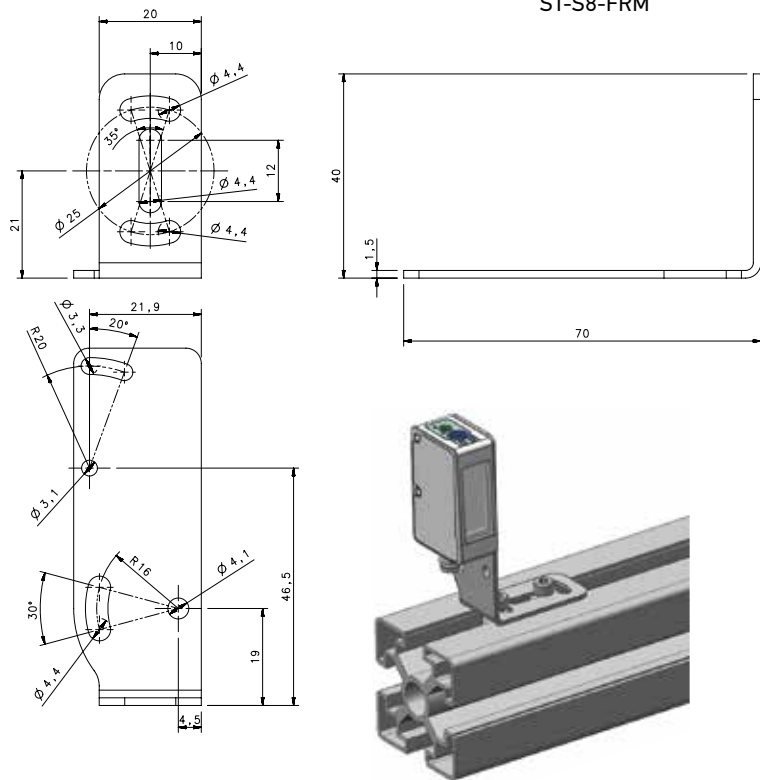
ST-S8-S3Z



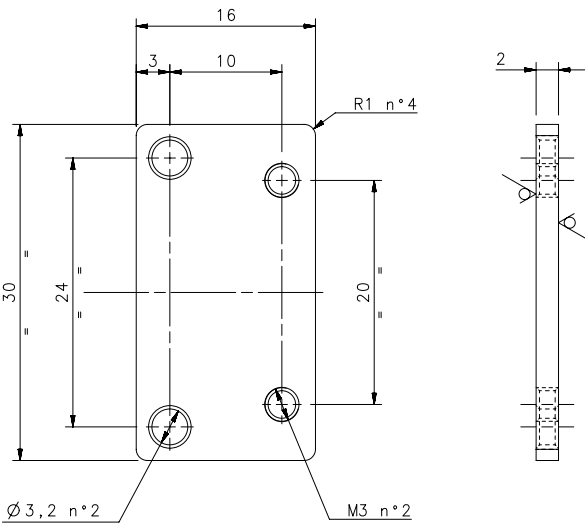
ST-S8-TL-LD46



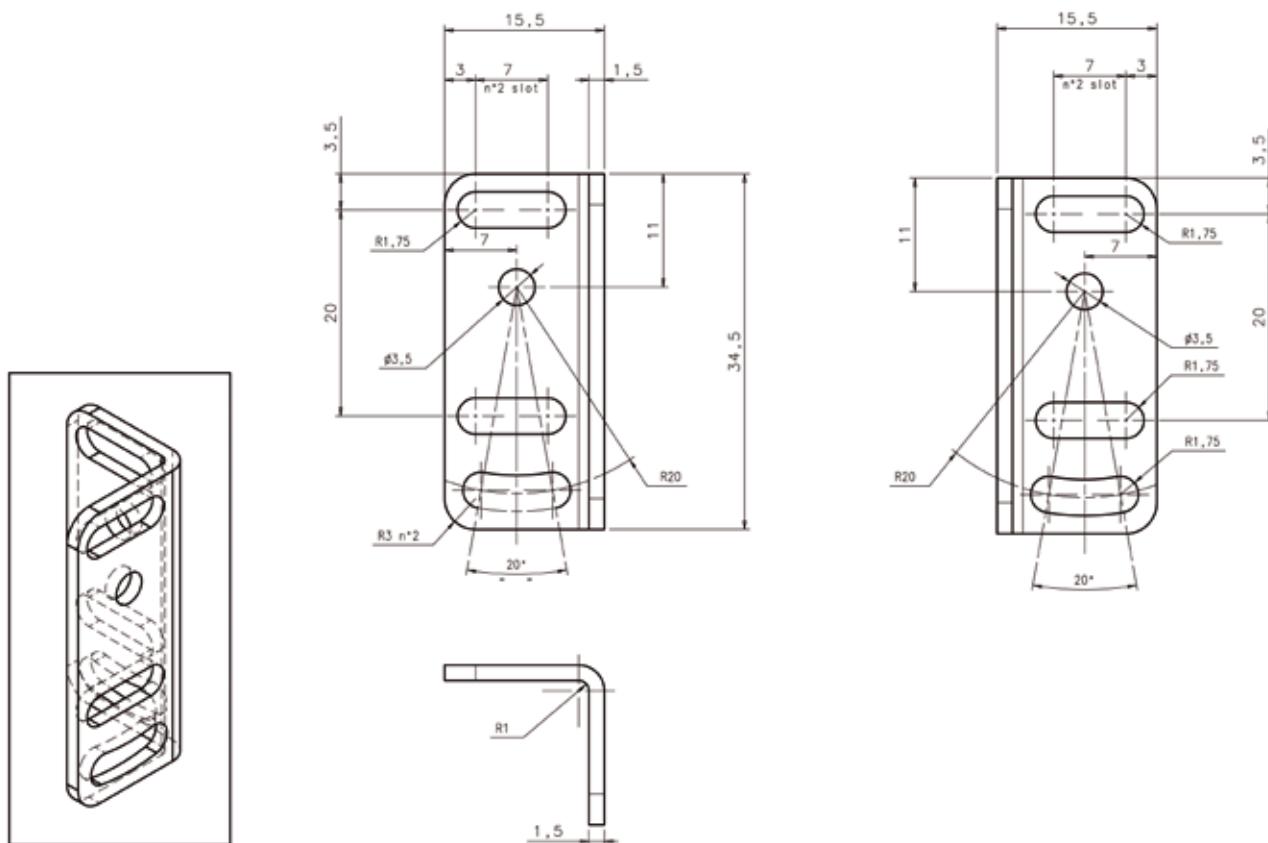
ST-S8-FRM



ST-0387



3.2/3.2



MODEL	FUNCTION	ORDER No.
ST-S8-FRM	mounting bracket for standard frame	95ACC7860
ST-5072	mounting bracket	95ACC1470
R4K	IP69K plastic reflector 51 x 61 mm	95A151220
ST-S8-TL-LD46	TL-LD46 adapting bracket	95ACC3430
ST-S8-S3Z	S8-miniature sensors adapting bracket	95ACC3440
ST-0387	Adapter bracket S8/S41	95ACC3410

IO-LINK CONNECTIVITY		
MODEL	DESCRIPTION	ORDER No.
CBX-8IOL-EIP	CBX-8IOL-EIP 8P IOL M12 EIP MASTER	95ACC8180
CBX-8IOL-PNIO	CBX-8IOL-PNIO 8P IOL M12 PROFINET MASTER	95ACC8190

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B1-02-G-03	95A251420
		5 m	CS-B1-02-G-05	95A251430
		7 m	CS-B1-02-G-07	95A251440
		10 m	CS-B1-02-G-10	95A251480
	4-pole, P.U.R.	2 m	CS-B1-02-R-02	95A251620
		5 m	CS-B1-02-R-05	95A251640
Radial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B2-02-G-03	95A251450
		5 m	CS-B2-02-G-05	95A251460
		7 m	CS-B2-02-G-07	95A251470
		10 m	CS-B2-02-G-10	95A251530
	4-pole, P.U.R.	2 m	CS-B2-02-R-02	95A251630
		5 m	CS-B2-02-R-05	95A251650
Axial M12-M/M8-F Double Headed Connector	4-pole, PVC IO-Link	3 m	CS-H1-02-B-03	95ACC0008