

# S8



**IO-Link**<sup>(\*)</sup>  
New ASIC



## 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


(\*) IO-Link models available from July 2020

(\*\*) Stainless steel models. ATEXII 3DG


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

# MODEL SELECTION AND ORDER INFORMATION

CLEAR DETECTION						
HOUSING	OPTIC TYPE	LIGHT EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
METAL Stainless Steel (INOX AISI 316L)	Axial	LASER	M8 connector	PNP	S8-MH-5-M53-PP	950801451
		LED			S8-MR-5-M53-PP	950801600
LASER		S8-PH-5-M53-PP			950801381	
LED		S8-PR-5-M53-PP			950801590	
PLASTIC ABS						

RETROREFLECTIVE FOR TRSPARENT						
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
pig-tail			NPN	S8-PR-3-T51-NN	950801130	
			PNP	S8-PR-3-T51-PP	950801120	
PLASTIC ABS			M8 connector	PNP/NPN/Push Pull	S8-PR-5-T53-OZ 	950800005
			M8 connector	NPN	S8-PR-5-T51-NN	950801050
	M8 connector	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 	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	

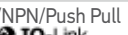
IO-Link models available from July 2020

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
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	
				PNP	S8-PR-5-W03-PP	950801060	
				NPN	S8-PR-5-W03-NN	950801070	
METAL Stainless Steel (INOX AISI 316L)		M8 connector	25 kHz	M8 connector	PNP/NPN/Push Pull 	S8-PR-5-W03-OZ	950800004
					PNP	S8-MR-5-W13-PP	950801670
					NPN	S8-MR-5-W13-NN	950801680
					PNP	S8-PR-5-W13-PP	950801650
PLASTIC ABS	M12 pig-tail (150 mm)	M12 pig-tail (150 mm)		NPN	S8-PR-5-W13-NN	950801660	
				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		
				NPN	S8-MR-5-U03-NN	950801640		
PNP				S8-PR-5-U03-PP	950801610			
NPN				S8-PR-5-U03-NN	950801620			
PLASTIC ABS			pig-tail	pig-tail	pig-tail	PNP/NPN/Push Pull 	S8-PR-5-U03-OZ	950800007
						PNP	S8-PR-3-U03-PP	950801710
						NPN	S8-PR-3-U03-NN	950801720

IO-Link models available from July 2020