TUBULAR SENSORS

SECTION S5N

S5N





COLOUATACO

EXTENDED RANGE OF STANDARD "ONE FOR ALL" PHOTOELECTRIC TUBULAR M18 SENSORS

- All optic functions
- Improved EMI immunity
- Improved ambient light immunity
- Improved laser safety level
- M18 flat plastic with universal mounting
- Short plastic housing models
- Available in M18 metal housing
- Stainless steel housing models
- · Axial or radial optics, cable or connector
- Standard 4-wire NO-NC NPN or PNP output
- M12 pigtail models available
- IO-Link connectivity V1.1 with double channel

APPLICATIONS

- Processing and Packaging machinery
- Conveyor lines, material handling
- Ceramics intralogistics
- Automated warehousing

	S5N		
Through beam		025 m (S5N-PP/NN; S5N-Px/MxPK/NK models) 020 m (S5N-SA/NA models) 060 m (class 1 LASER S5NPP/NN models)	
Retroreflective (on R2 reflector)	Retroreflective (on R2 reflector)		
Polarized retroreflective (on R2 reflector)		0,13m (S5N-Px/MxPK/NK models) 0,14 m (S5NPP/NN; S5N-SA/NA models) 0,116 m (class 1 LASER S5NPP/NN models)	
Retroreflective for transparent (on R2 reflector)		0,10,8 m (S5N-SA/NA) 0,11,3 m (S5NPP/NN models)	
Diffuse proximity		short distance 0100 mm (all models) medium distance 0400 mm (S5NPP/NN models) medium distance 0350 (S5N-SA/NA models) medium distance 0450 (S5N-Px/MxPK/NK models) long distance 0700 amm (S5NPP/NN models) long distance Laser 0350 mm (S5NPP/NN models)	
Fixed focus		50 mm (S5N-SA/NA models) 100 mm (S5NPP/NN models)	
Background suppression		40120 mm (S5N-SA/NA models) 50150 mm (S5NPP/NN models)	
Through beam with fiber optic	Through beam with fiber optic		
Diffuse proximity with fiber optic		030 mm (S5NPP/NN models)	
Contrast sensor		10 ±2 mm (S5NPP/NN models)	
Luminescence sensor		020 mm (S5NPP/NN models)	
	Vdc	1030 V	
Power supply	Vac		
	Vac/dc		
	PNP	•	
	NPN	•	
Output	NPN/PNP		
	relay other	I0-Link v 1.1	
	cable	IU-LINK V 1.1	
Connection	connector	•	
connection	pig-tail	•	
Approximate dimensions (mm)	12.3	M18 x (see mechanical drawings)	
Housing material		PBT, Nickel plated Brass (S5N-PP/NN; S5N-Px/MxPK/NK models) ABS, AISI 316 L Stainless steel inox (S5N-SA/NA models)	
Mechanical protection		IP67 (S5N-PP/NN; S5N-Px/MxPK/NK models) IP65 - IP67 - IP69K (S5N-SA/NA)	



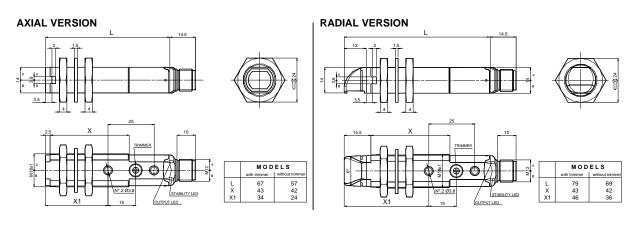
TECHNICAL DATA

Power supply	10 30 Vdc (limit values all models)			
Ripple	2 Vpp max. (all models)			
Consumption (output current excluded)	35 mA max. (all models)			
	red LED 630 nm (mod. S5ND00/E01, S5N-PA/MAM03)			
	red LED 660 nm (mod. S5NB01PP/NN/PK/NK; S5NT01PP/NN) - (mod. S5N-SA/NAB/D/T/M)			
	red LED 670 nm (mod. S5N-PS/MSM03PP/NN)			
Light emission	IR LED 880 nm - (mod. S5N-Px/MxA00/C01/C10/C21/G00PP/NN/PK/NK) - (mod. S5N-SA/NAA/C/G)			
	white LED 400-700 nm (mod. S5NW03PP/NN)			
	UV LED 370 nm (mod. S5NU03PP/NN)			
	red Laser 650 nm (mod. S5N-PH/PLG00/B01/C01PP/NN)			
	sensivity trimmer 270° and without trimmer model (see mech drawings)			
Setting	4 turns sensitivity trimmer (mod. S5N-Px/MxM01PK/NK)			
	teach-in push-button (mod. S5NM03/W03/U03PP/NN)			
	LIGHT mode on N.O. output / DARK mode on N.C. output (mod.S5NC01/C10/C21/D00/M03/U03PP/NN)			
	DARK mode on N.O. output / LIGHT mode on N.C. output (mod.S5NA00/B01/E01/F01/T01/W03PP/NN)			
Operating mode	L/D input white wire or pin 2, if pin not connected on S5N-Px/MxPK/NK:			
	LIGHT mode (mod. S5N-Px/MxC/D/MPK/NK)			
	DARK mode (mod. S5N-Px/MxA/B/T/FPK/NK)			
	white wire or pin 2 connected to: 0 V DARK mode, +Vcc LIGHT mode			
	yellow OUTPUT LED (S5N, excl. mod. G00)			
Indicators	green STABILITY LED (mod. S5NB01/C01/C21/E01/F01/W03/U03), POWER LED (mod. S5NG00)			
	green/red READY/ERROR LED (mod. S5NM03PP/NN)			
	PNP or NPN; N0; NC (mod. S5NPP/NN)			
Output	PNP or NPN (mod. S5N-Px/MxPK/NK)			
	IO-Link v 1.1 (mod.S5N0Z)			
IO-Link interface	(mod.S5N0Z) v 1.1, com 2, 38,4 kBaud, 32 bit process data,			
	5 ms cycle time LED emission model, 8 ms cycle time LASER emission model			
Output current	100 mA max. (all models)			
Saturation voltage	2 V max. (all models)			
	0,5 ms (mod. S5NA00/B01/T01/C10/C21/C01/D00/E01/U03PP/NN) - (mod. S5N-Px/MxD00PK/NK)			
	2 ms (mod. S5NF01/G00PP/NN) - (mod. S5N-Px/MxF00PK/NK)			
Response time	1 ms (mod. S5NM03PP/NN) - (mod. S5N-Px/MxA/B/C/T/MPK/NK)			
	100 μs (mod. S5NW03PP/NN)			
	333 µs (mod. S5N-PH/PLPP/NN Laser emission models)			
	1 kHz (mod. S5NA00/B01/T01/C10/C21/C01/D00/E01/U03PP/NN) - (mod. S5N-Px/MxD00PK/NK)			
	250 Hz (mod. S5NF01/G00PP/NN) - (mod. S5N-Px/MxF00PK/NK)			
Switching frequency	500 Hz (mod. S5NM03PP/NN) - (mod. S5N-Px/MxA/B/C/T/MPK/NK)			
	100 μs (mod. S5NW03PP/NN)			
•	333 µs (mod. S5NPP/NN Laser emission models)			
Connection	M12 4-pole connector, 2 m cable Ø 4 mm, 150 mm length Ø 4 mm cable with M12 4-pole connector			
Dielectric strength	500 Vac, 1 min between electronics and housing			
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing			
Electrical protection	class 2			
Mechanical protection	IP67 (S5N-PP/NN; S5N-Px/MxPK/NK models) IP65 - IP67 - IP69K (S5N-SA/NA)			
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 shock for every axis (EN60068-2-27)			
	PBT, Nickel plated Brass (S5N-Px/MxPP/NN/PK/NK models)			
Housing material	ABS, AISI 316 L Stainless steel inox (S5N-SA/NA models)			
Lens material	PMMA (all models)			
	-25 55 °C			
Operating temperature	(Laser mod.) -10 50 °C			
Storage temperature	-25 70 °C			
•	Plastic version 75 g max. cable vers. (90 g max. mod. M03), 25 g max. conn. vers. (40 g max. mod. M03)			
Weight	Metal version 110 g max. cable vers. (125 g max. mod. M03), 60 g max. conn. vers. (75 g max. mod. M03)			

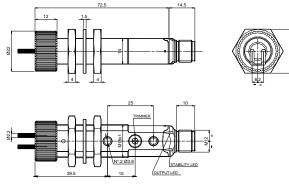
DIMENSIONS

S5N...NN/PP MODELS

PLASTIC



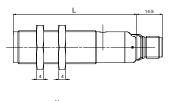
FIBRE OPTIC VERSION

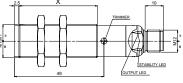


RADIAL VERSION

METAL

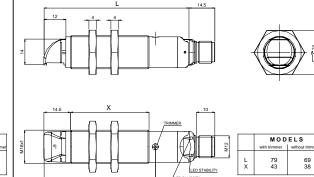
AXIAL VERSION



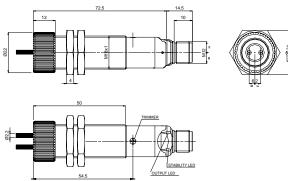




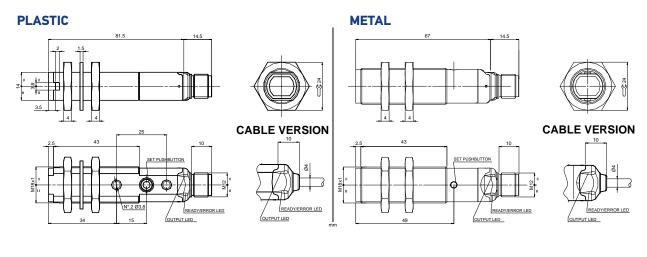




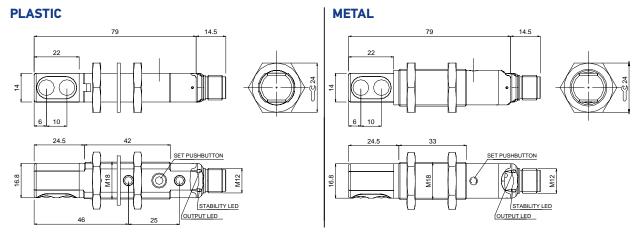
FIBRE OPTIC VERSION



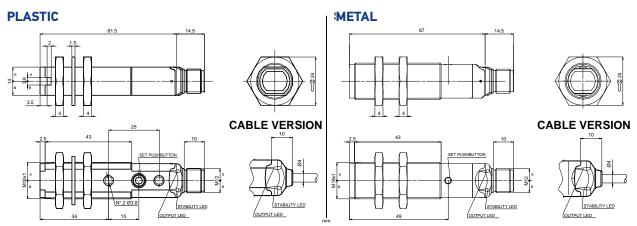
BACKGROUND SUPPRESSION AXIAL VERSION



BACKGROUND SUPPRESSION RADIAL VERSION

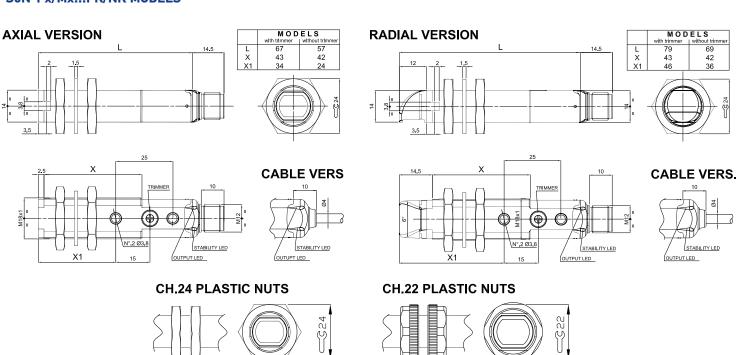


LUMINESCENCE AND CONTRAST

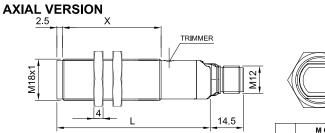


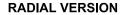
DIMENSIONS

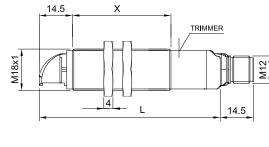
S5N-Px/Mx...PK/NK MODELS

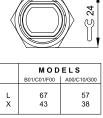


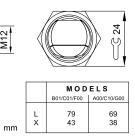
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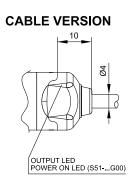








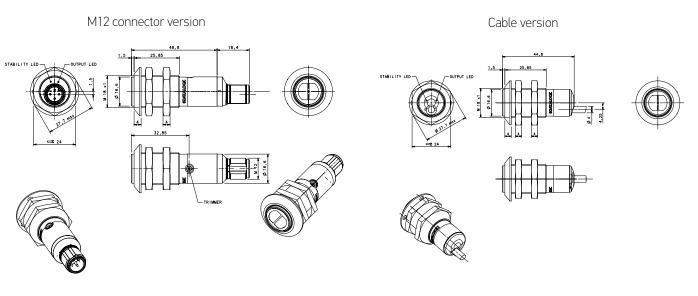




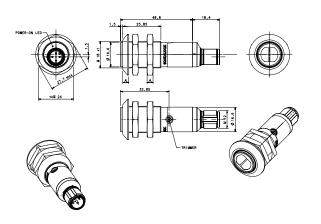
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S5N-SA MODELS

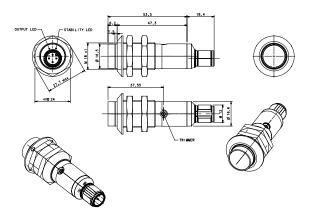
PLASTIC



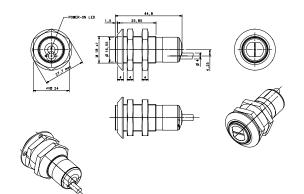
Through beam emitter - M12 connector version



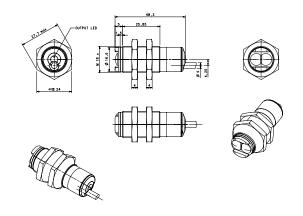
Background suppression - M12 connector version



Through beam emitter - cable version



Diffuse proximity - cable version

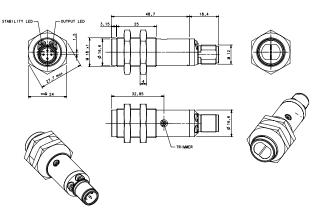


DIMENSIONS

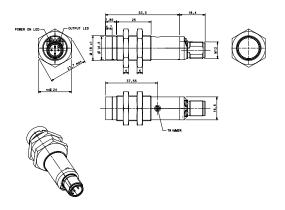
S5N-NA MODELS

STAINLESS STEEL

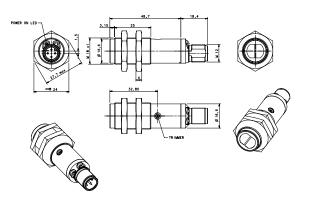
M12 connector version



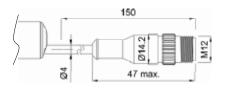
Background suppression - M12 connector version



Through beam emitter - M12 connector version



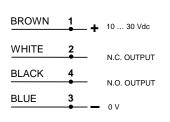
Pig-tail version



CONNECTIONS

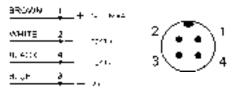
S5N...PP/NN MODELS

CABLE

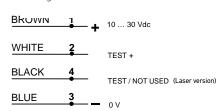


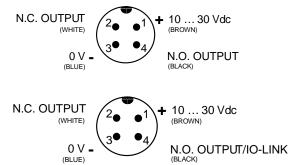
S5N-Px/Mx...PK/NK MODELS





Through beam emitter





M12 CONNECTOR

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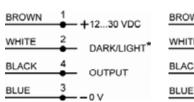
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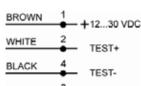
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DATALOGIC

S5N...NA/SA MODELS

Cable and Pig-tail



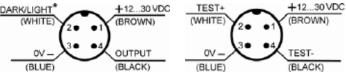


ν

Through beam emitter

M12 connector

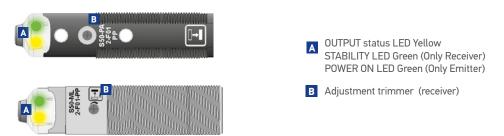
Through beam emitter



INDICATORS AND SETTINGS

S5N...PP/NN MODELS

S5N-XX...A00/B01/C01/C21/E01/F01/T01



Single-turn trimmer for sensitivity adjustment. Rotate in a clockwise direction to increase the operating distance.



Teach-in button for setting.

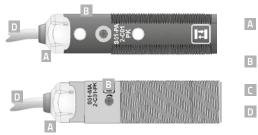
EASYtouch™ provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

S5N-XX-A00/C10/D00



A00/C10
A OUTPUT status LED Yellow

G00 OUTPUT status LED yellow (Only Emitter G00) S5N-Px/Mx...PK/NK MODELS



Trimmer for sensitivity adjustment.

Rotate in a clockwise direction to increase the operating distance.

OUTPUT status LED;

Adjustment trimmer (B01, C01 models)

M12 connector

Cable connection

model

POWER ON LED on G00

S5N...SA/NA MODELS

Plastic/metal case with trimmer, M12 connector



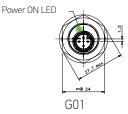


Stability LED

A01, B01, C11, C31, T01, F01, M01

Output LED

A00, B00, C10, C00, T01, D50

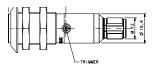


Power ON LED

G00

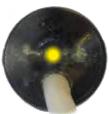
Plastic, no trimmer, Cable, Pig Tail

-Output LED









DETECTION DIAGRAMS

20

15

Maximum operating distance

S5N...PP/NN MODELS

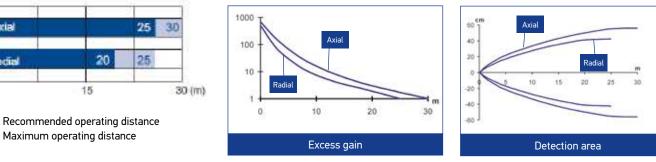
axial

re dial

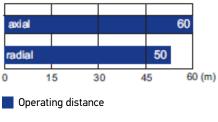
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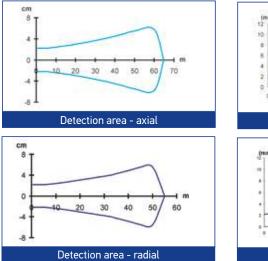


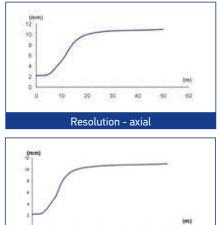
F00



THROUGH BEAM (G/F) LASER RED EMISSION

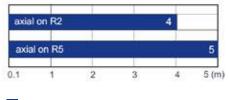




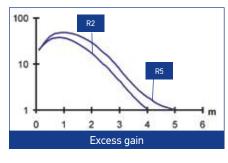


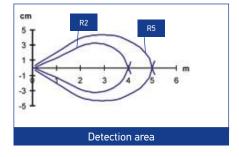
Resolution - radial

RETROREFLECTIVE (A) INFRARED EMISSION



Operating distance



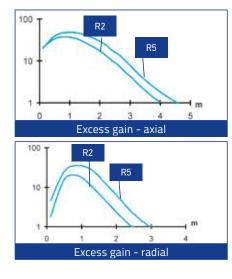


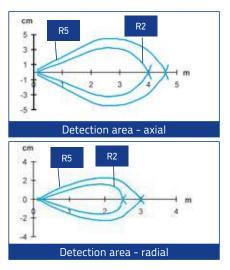
RETROREFLECTIVE POLARIZED (B) RED EMISSION

ixial on R2	3.5	1721	
	3.5	4	
adial on R5 2.5	3		
adial on R2 2 2.5			

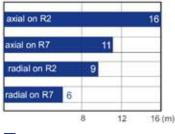
Recommended operating distanceMaximum operating distance

High efficiency reflectors can be used to obtain larger operating distances. Refer to **Reflectors** (A.01).



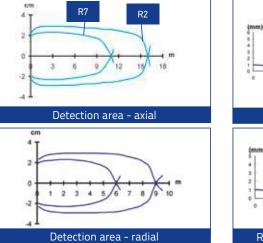


RETROREFLECTIVE POLARIZED (B) LASER RED EMISSION



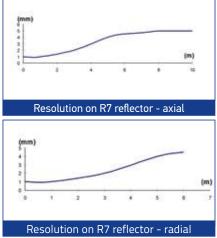
Operating distance

High efficiency reflectors can be used to obtain larger operating distances. Refer to **Reflectors** (A.01).



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2.0



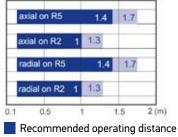
RETROREFLECTIVE TRANSPARENT (T) RED EMISSION

1.0

Excess gain

1.5

0.5

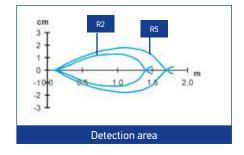


Recommended operating distanceMaximum operating distance

High efficiency reflectors can be used to obtain larger operating distances. Refer to Reflectors.

10

0.0

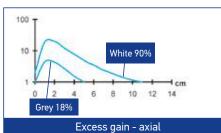


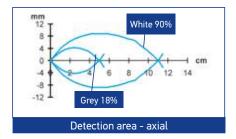
OIDOIVATORIC

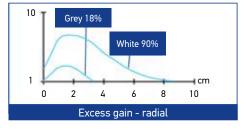
ENERGETIC DIFFUSED (C) SHORT INFRARED EMISSION

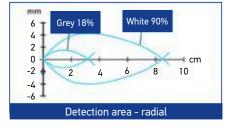


Recommended operating distance Maximum operating distance

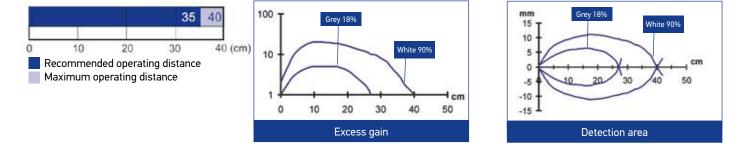




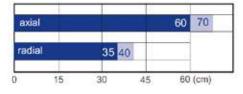




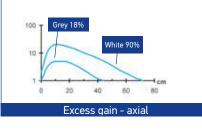
ENERGETIC DIFFUSED (C) MID INFRARED EMISSION

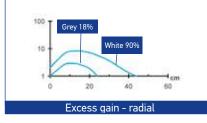


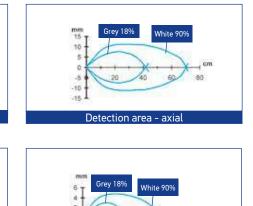
ENERGETIC DIFFUSED (C) LONG INFRARED EMISSION



Recommended operating distance Maximum operating distance



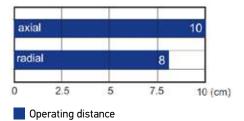


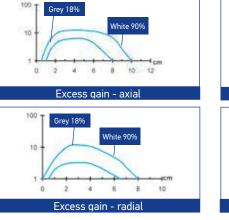


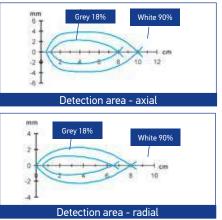


-1 cm

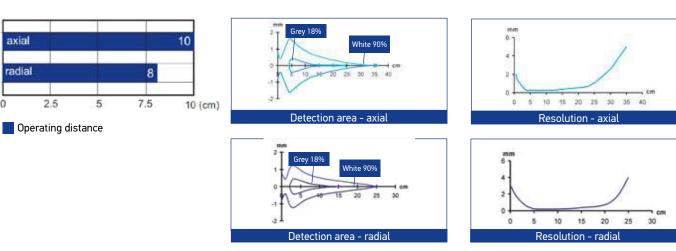
FIXED FOCUS (D) RED EMISSION





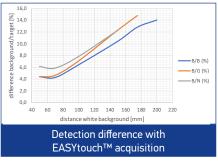


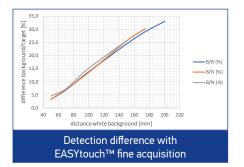
DIFFUSED (C) LASER RED EMISSION



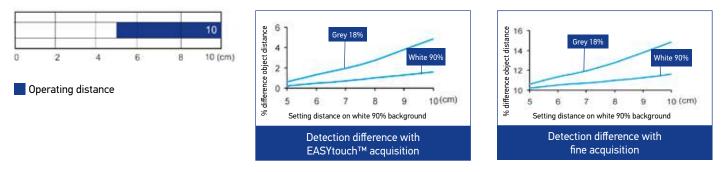
BACKGROUND SUPPRESSOR (M) AXIAL RED EMISSION



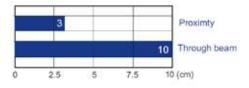




BACKGROUND SUPPRESSOR (M) RADIAL RED EMISSION



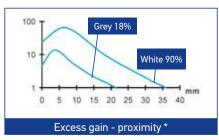
FIBER OPTIC (E) RED EMISSION



Operating distance with standard fibers

Standard Fiber-optics: OF-42-ST-20 proximity OF-43-ST-20 through beam

High efficiency fiber-optics or accessory lenses can be used to obtain larger operating distances.



1000

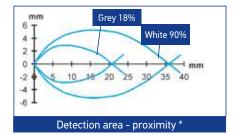
100

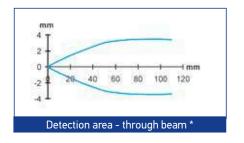
10

0

* standard Fiber-optics

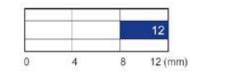
20 40 60 80

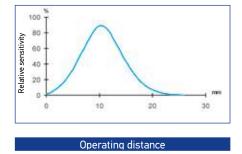




MARK READER (W) WHITE EMISSION

Excess gain - through beam *



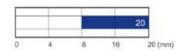


mm

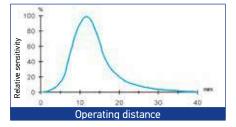
100 120

Operating distance

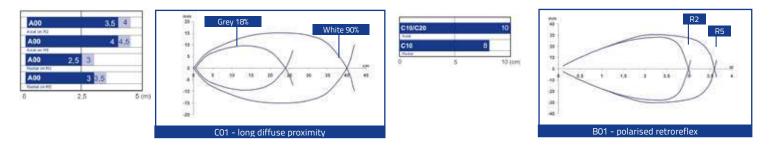
LUMINESCENCE (U) UV EMISSION



Operating distance

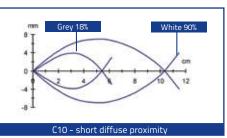


S5N...PK/NK MODELS





F/G



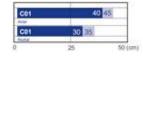
C20 - narrow beam proximity

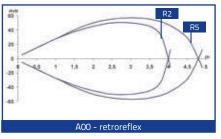
Grey 18%

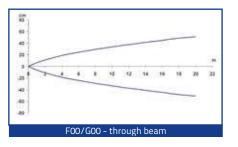
Note: the diagrams indicate the detection area typical of the axial optic versions; the maximum operating distance of the radial optic versions decreases as indicated in the tables given below

White 90%

iq



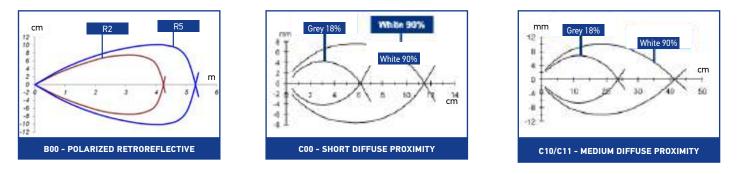


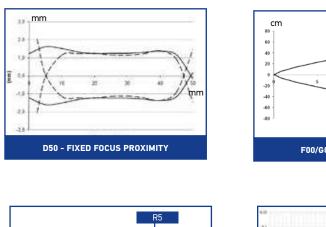


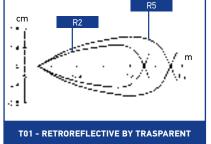
Recommended operating distance Maximum operating distance

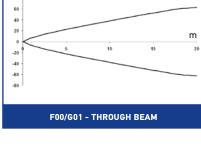
18

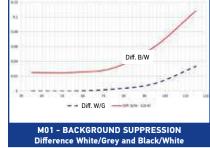
S5N-SA/NA MODELS











MODEL SELECTION AND ORDER INFORMATION

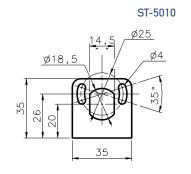
OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER
		2m Cable	NPN	S5N-PA-2-A00-NN	952002
Retroreflective			PNP	S5N-PA-2-A00-PP	952002
		M12 Connector	NPN PNP	S5N-PA-5-A00-NN S5N-PA-5-A00-PP	952002 952002
	LED, Axial optic	0 0-L1	NPN	S5N-PA-2-B01-NN	952002
		2m Cable	PNP	S5N-PA-2-B01-PP	952001
		M12 Company	NPN PNP	S5N-PA-5-B01-NN	952001
		M12 Connector	IO-Link	S5N-PA-5-B01-PP S5N-PA-5-B01-OZ	952001 952002
		0.011	NPN	S5N-PR-2-B01-02	952002
	LED, Radial optic	2m Cable	PNP	S5N-PR-2-B01-PP	952001
		M12 Connector	NPN	S5N-PR-5-B01-NN	952001
Polarized retroreflective			PNP NPN	S5N-PR-5-B01-PP S5N-PL-2-B01-NN	952001 952001
		2m Cable	PNP	S5N-PL-2-B01-PP	952001
	LASER, Axial optic		NPN	S5N-PL-5-B01-NN	952001
		M12 Connector	PNP O IO-Link	S5N-PL-5-B01-PP S5N-PL-5-B01-OZ	952001 952002
		0	NPN	S5N-PH-2-B01-02	952002
	LASER, Radial optic	2m Cable	PNP	S5N-PH-2-B01-PP	952001
	EASEN, Naulai optic	M12 Connector	NPN	S5N-PH-5-B01-NN	952001
			PNP NPN	S5N-PH-5-B01-PP S5N-PA-2-C01-NN	952001 952001
		2m Cable	PNP	S5N-PA-2-C01-NN	952001
	LED, Axial optic		NPN	S5N-PA-5-C01-NN	952001
		M12 Connector	PNP OID-Link	S5N-PA-5-C01-PP S5N-PA-5-C01-OZ	952001 952002
		0.011	NPN	S5N-PA-5-C01-02 S5N-PR-2-C01-NN	952002
	LED, Radial optic	2m Cable	PNP	S5N-PR-2-C01-PP	952001
	LLD, Naulai Optic	M12 Connector	NPN	S5N-PR-5-C01-NN	952001
Long Diffuse proximity			PNP NPN	S5N-PR-5-C01-PP S5N-PL-2-C01-NN	952001 952001
		2m Cable	PNP	S5N-PL-2-C01-NN	952001
	LASER, Axial optic		NPN	S5N-PL-5-C01-NN	952001
		M12 Connector	PNP OID-Link	S5N-PL-5-C01-PP	952001
			NPN	S5N-PL-5-C01-OZ S5N-PH-2-C01-NN	952002 952001
	LASER, Radial optic	2m Cable	PNP	S5N-PH-2-C01-PP	952001
		M12 Connector	NPN	S5N-PH-5-C01-NN	952002
			PNP NPN	S5N-PH-5-C01-PP S5N-PA-2-C10-NN	952002 952001
	LED Avial antia	2m Cable	PNP	S5N-PA-2-C10-NN	9520012
	LED, Axial optic	M12 Connector	NPN	S5N-PA-5-C10-NN	952001
Short Diffuse proximity			PNP	S5N-PA-5-C10-PP	952001
. *		2m Cable	NPN PNP	S5N-PR-2-C10-NN S5N-PR-2-C10-PP	952001 952001
	LED, Radial optic	M12 Connector	NPN	S5N-PR-5-C10-NN	952001
			PNP	S5N-PR-5-C10-PP	952001
		2m Cable	NPN PNP	S5N-PA-2-C21-NN S5N-PA-2-C21-PP	952002 952002
Medium Diffuse proximity		M12 Connector	NPN	S5N-PA-5-C21-NN	952002
	LED, Axial optic		PNP	S5N-PA-5-C21-PP	952002
	,	2m Cable	NPN PNP	S5N-PA-2-D00-NN S5N-PA-2-D00-PP	952001 952001
		M12 Connector	NPN	S5N-PA-5-D00-NN	952001
Fixed focus		M12 Connector	PNP	S5N-PA-5-D00-PP	952001
		2m Cable	NPN PNP	S5N-PR-2-D00-NN	952001 952001
	LED, Radial optic	1410.0	NPN	S5N-PR-2-D00-PP S5N-PR-5-D00-NN	952001
		M12 Connector	PNP	S5N-PR-5-D00-PP	952001
		2m Cable	NPN	S5N-PA-2-E01-NN	952001
Fiber optic			PNP NPN	S5N-PA-2-E01-PP S5N-PA-5-E01-NN	952001 952001
	LED Avial antia	M12 Connector	PNP	S5N-PA-5-E01-PP	952001
	LED, Axial optic	2m Cable	NPN	S5N-PA-2-F01-NN	952001
Through beam receiver			PNP NPN	S5N-PA-2-F01-PP S5N-PA-5-F01-NN	952001 952001
		M12 Connector	PNP	S5N-PA-5-F01-NN S5N-PA-5-F01-PP	952001
		2m Cable	NPN	S5N-PR-2-F01-NN	952001
	LED, Radial optic		PNP	S5N-PR-2-F01-PP	952001
		M12 Connector	NPN PNP	S5N-PR-5-F01-NN S5N-PR-5-F01-PP	952001 952001
		2m Cable	NPN	S5N-PL-2-F01-NN	952001
Through beam receiver	LASER, Axial optic	ZIII Cable	PNP	S5N-PL-2-F01-PP	952001
J	,	M12 Connector	NPN PNP	S5N-PL-5-F01-NN S5N-PL-5-F01-PP	952001 952001
		0 0-L1	NPN	S5N-PH-2-F01-NN	952002
	LASER, Radial optic	2m Cable	PNP	S5N-PH-2-F01-PP	952002
	Encen, nadiat optic	M12 Connector	NPN	S5N-PH-5-F01-NN	952002
		2m Cable	PNP	S5N-PH-5-F01-PP S5N-PA-2-G00-XG	952002 952001
	LED, Axial optic	M12 Connector	-	S5N-PA-5-G00-XG	952001
	LED, Radial optic	2m Cable	-	S5N-PR-2-G00-XG	952001
Through beam emitter		M12 Connector 2m Cable		S5N-PR-5-G00-XG S5N-PL-2-G00-XG	9520012 9520014
	LASER, Axial optic	M12 Connector		S5N-PL-5-G00-XG	952001
		MIZ CONNECTOR		00111200007.0	

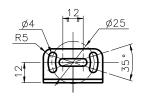
S5N - STANDARD PLA	STIC HOUSING - NO/NC S	TANDARD OUTPUT & 10		(SSIN-PAPP7ININ/C	
		2m Cable	NPN	S5N-PA-2-M03-NN	9520016
		2111 04510	PNP	S5N-PA-2-M03-PP	9520012
	LED, Axial optic		NPN	S5N-PA-5-M03-NN	9520015
		M12 Connector	PNP	S5N-PA-5-M03-PP	9520010
Background suppression			🛛 IO-Link	S5N-PA-5-M03-0Z	9520022
		M12 Connector	PNP	S5N-PS-5-M03-PP	9520019
	LED, Radial optic		NPN	S5N-PS-5-M03-NN	9520019
	LED, Radial optic		PNP	S5N-PS-2-M03-PP	9520019
		2m Cable	NPN	S5N-PS-2-M03-NN	9520019
		ZITI Cable	NPN	S5N-PA-2-T01-NN	9520016
			PNP	S5N-PA-2-T01-PP	9520012
	LED, Axial optic		NPN	S5N-PA-5-T01-NN	9520015
	,	M12 Connector	PNP	S5N-PA-5-T01-PP	9520012
Retroreflective for transparent			IO-Link	S5N-PA-5-T01-0Z	9520022
			NPN	S5N-PR-2-T01-NN	9520018
		2m Cable	PNP	S5N-PR-2-T01-PP	9520012
	LED, Radial optic		NPN	S5N-PR-5-T01-NN	9520012
		M12 Connector	PNP	S5N-PR-5-T01-PP	9520012
			NPN	S5N-PA-2-U03-NN	9520012
		2m Cable	PNP	S5N-PA-2-U03-PP	9520013
Luminescence	-				
		M12 Connector	NPN	S5N-PA-5-U03-NN	9520015
			PNP	S5N-PA-5-U03-PP	9520013
	LED, Axial optic	2m Cable	NPN	S5N-PA-2-W03-NN	9520017
_		2111 04510	PNP	S5N-PA-2-W03-PP	9520013
Contrast			NPN	S5N-PA-5-W03-NN	9520016
		M12 Connector	PNP	S5N-PA-5-W03-PP	9520013
			O IO-Link	S5N-PA-5-W03-0Z	9520022
	STANDARD PLASTIC HOU	SING - L/D INPLIT MOD			
			NPN	S5N-PA-2-A00-NK	9527010
		2m Cable			
	LED, Axial optic		PNP	S5N-PA-2-A00-PK	9527010
	F F	M12 Connector	NPN	S5N-PA-5-A00-NK	9527013
Retroreflective			PNP	S5N-PA-5-A00-PK	9527012
		2m Cable	NPN	S5N-PR-2-A00-NK	9527012
	LED, Radial optic		PNP	S5N-PR-2-A00-PK	9527011
	EED, Radiat optic	M12 Connector	PNP	S5N-PR-5-A00-PK	9527013
		2m Cable	NPN	S5N-PA-2-B01-NK	9527010
	ED Avial antic	ZIII Cable	PNP	S5N-PA-2-B01-PK	9527010
	LED, Axial optic	M12 C	NPN	S5N-PA-5-B01-NK	9527013
Polarized retroreflective		M12 Connector	PNP	S5N-PA-5-B01-PK	9527012
			NPN	S5N-PR-2-B01-NK	9527012
	LED, Radial optic	2m Cable	PNP	S5N-PR-2-B01-PK	9527011
	LED, Naulai Optic	M12 Connector	PNP		
		MIZ CONNECTOR		S5N-PR-5-B01-PK	9527014
		2m Cable	NPN	S5N-PA-2-C01-NK	9527010
	LED, Axial optic		PNP	S5N-PA-2-C01-PK	9527010
		M12 Connector	NPN	S5N-PA-5-C01-NK	9527013
Diffuse proximity			PNP	S5N-PA-5-C01-PK	9527012
		0.011	NPN	S5N-PR-2-C01-NK	9527012
	LED, Radial optic	2m Cable	PNP	S5N-PR-2-C01-PK	9527011
	,	M12 Connector	PNP	S5N-PR-5-C01-PK	9527014
			NPN	S5N-PA-2-C10-NK	
		2m Cable			952701
	LED, Axial optic		PNP	S5N-PA-2-C10-PK	9527010
	,	M12 Connector	NPN	S5N-PA-5-C10-NK	9527013
Short Diffuse proximity			PNP	S5N-PA-5-C10-PK	9527012
-		2m Cakl-	NPN	S5N-PR-2-C10-NK	9527012
	LED, Radial optic	2m Cable	PNP	S5N-PR-2-C10-PK	9527011
		M12 Connector	PNP	S5N-PR-5-C10-PK	9527014
		2m Cable	NPN	S5N-PA-2-F00-NK	9527011
	LED, Axial optic	ZIII Cable	NPN		9527013
Through beam receiver		M12 C		S5N-PA-5-F00-NK	
		M12 Connector	PNP	S5N-PA-5-F00-PK	9527013
	LED, Radial optic		PNP	S5N-PR-5-F00-PK	9527014
	LED, Axial optic	2m Cable	-	S5N-PA-2-G00-XG	9520011
		M12 Connector	-	S5N-PA-5-G00-XG	9520012
		2m Cable	-	S5N-PR-2-G00-XG	9520012
T 11	LED, Radial optic	M12 Connector	-	S5N-PR-5-G00-XG	9520012
Through beam emitter		2m Cable	-	S5N-PL-2-G00-XG	9520014
	LASER, Axial optic	M12 Connector		S5N-PL-5-G00-XG	9520014
	LASER, Radial optic	2m Cable	-	S5N-PH-2-G00-XG	9520020
		M12 Connector	-	S5N-PH-5-G00-XG	9520020
	N - SHORT PLASTIC HO	JSING - L/D INPUT MC	DDELS (S <mark>5N-S</mark> /		
			NPN	S5N-SA-2-B00-NK	9523010
Polarized retroreflective		2m Cable	PNP	S5N-SA-2-B00-PK	9523010
		Dia Tail M12			
	-	Pig Tail M12	PNP	S5N-SA-3-B00-PK	9523011
		2m Cable	NPN	S5N-SA-2-C00-NK	9523010
Diffuse proximity		ZIII Gable	PNP	S5N-SA-2-C00-PK	9523010
-			PNP	S5N-SA-3-C00-PK	952301
Short Diffuse proximity			PNP	S5N-SA-3-C10-PK	952301
Fixed Focus	LED, Axial optic	Pig Tail M12	PNP	S5N-SA-3-D50-PK	952301
	-				
Thursday and the	_		PNP	S5N-SA-3-F00-PK	952301
Through beam receiver			-	S5N-SA-3-G00-XG	9523012
Through beam receiver Through beam emitter	- -				0500010
Through beam emitter			NPN	S5N-SA-5-M01-NK	
		M12 Comparison	NPN PNP	S5N-SA-5-M01-NK S5N-SA-5-M01-PK	
Through beam emitter	-	M12 Connector			9523013 9523012 9523012

		2m Cable	NPN	S5N-MA-2-A00-NN	9520220
Retroreflective		Zm Caple	PNP	S5N-MA-2-A00-PP	9520220
Retroreflective		M12 Compositor	NPN	S5N-MA-5-A00-NN	9520221
		M12 Connector	PNP	S5N-MA-5-A00-PP	9520221
	LED, Axial optic	2 C	NPN	S5N-MA-2-B01-NN	9520215
	-	2m Cable	PNP	S5N-MA-2-B01-PP	9520210
			NPN	S5N-MA-5-B01-NN	9520216
		M12 Connector	PNP	S5N-MA-5-B01-PP	9520212
			O IO-Link	S5N-MA-5-B01-0Z	9520221
			NPN	S5N-MR-2-B01-NN	9520216
	LED, Radial optic	2m Cable	PNP	S5N-MR-2-B01-PP	9520211
			NPN	S5N-MR-5-B01-NN	9520217
		M12 Connector	PNP	S5N-MR-5-B01-PP	9520213
Polarized retroreflective			NPN	S5N-ML-2-B01-NN	9520218
		2m Cable	PNP	S5N-ML-2-B01-PP	9520214
	LASER, Axial optic		NPN	S5N-ML-5-B01-NN	9520218
	•	M12 Connector	PNP	S5N-ML-5-B01-PP	9520214
			IO-Link	S5N-ML-5-B01-0Z	9520221
			NPN	S5N-MH-2-B01-NN	9520219
		2m Cable	PNP	S5N-MH-2-B01-PP	9520219
	LASER, Radial optic		NPN	S5N-MH-5-B01-NN	9520219
		M12 Connector	PNP	S5N-MH-5-B01-PP	9520219
			NPN	S5N-MA-2-C01-NN	9520215
		2m Cable	PNP	S5N-MA-2-C01-PP	9520210
	LED, Axial optic		NPN	S5N-MA-5-C01-NN	9520216
		M12 Connector	PNP	S5N-MA-5-C01-PP	9520210
		MIZ CONNECLUI	O IO-Link	S5N-MA-5-C01-PP	9520212
			NPN	S5N-MR-2-C01-NN	9520222
		2m Cable	PNP	S5N-MR-2-C01-NN S5N-MR-2-C01-PP	9520216
	LED, Radial optic		NPN	S5N-MR-2-C01-PP	9520211
		M12 Connector	PNP	S5N-MR-5-C01-NN S5N-MR-5-C01-PP	9520217
Long Diffuse proximity			NPN	S5N-MR-5-C01-PP	9520213
		2m Cable	PNP		9520218
				S5N-ML-2-C01-PP	
	LASER, Axial optic	M12 Commenter	NPN PNP	S5N-ML-5-C01-NN	9520218
		M12 Connector		S5N-ML-5-C01-PP	9520214
			O IO-Link	S5N-ML-5-C01-OZ	9520221
		2m Cable	NPN	S5N-MH-2-C01-NN	9520219
	LASER, Radial optic		PNP	S5N-MH-2-C01-PP	9520219
		M12 Connector	NPN	S5N-MH-5-C01-NN	9520220
			PNP	S5N-MH-5-C01-PP	9520220
		2m Cable	NPN	S5N-MA-2-C10-NN	9520215
	LED, Axial optic		PNP	S5N-MA-2-C10-PP	9520210
		M12 Connector	NPN	S5N-MA-5-C10-NN	9520216
Short Diffuse proximity			PNP	S5N-MA-5-C10-PP	9520212
Short Binase proximity		2m Cable	NPN	S5N-MR-2-C10-NN	9520216
	LED, Radial optic	2	PNP	S5N-MR-2-C10-PP	9520214
	EED, Rudiat optic	M12 Connector	NPN	S5N-MR-5-C10-NN	9520217
			PNP	S5N-MR-5-C10-PP	9520214
		2m Cable	NPN	S5N-MA-2-C21-NN	9520221
Medium Diffuse proximity		Zin Gabie	PNP	S5N-MA-2-C21-PP	9520221
medium billuse proximity		M12 Connector	NPN	S5N-MA-5-C21-NN	9520221
	ED Avial antia	MTZ CONNECTOR	PNP	S5N-MA-5-C21-PP	9520221
	LED, Axial optic	2m Cable	NPN	S5N-MA-2-D00-NN	9520215
		ZIII Cable	PNP	S5N-MA-2-D00-PP	9520210
		M10.0	NPN	S5N-MA-5-D00-NN	9520216
Fixed forms		M12 Connector	PNP	S5N-MA-5-D00-PP	9520212
Fixed focus		0.011	NPN	S5N-MR-2-D00-NN	9520216
		2m Cable	PNP	S5N-MR-2-D00-PP	9520211
	LED, Radial optic	1410.0	NPN	S5N-MR-5-D00-NN	9520217
		M12 Connector	PNP	S5N-MR-5-D00-PP	9520213
			NPN	S5N-MA-2-E01-NN	9520218
		2m Cable	PNP	S5N-MA-2-E01-PP	9520210
Fiber optic			NPN	S5N-MA-5-E01-NN	9520218
		M12 Connector	PNP	S5N-MA-5-E01-PP	9520212
	LED, Axial optic		NPN	S5N-MA-2-F01-NN	9520215
		2m Cable	PNP	S5N-MA-2-F01-PP	9520210
			NPN	S5N-MA-5-F01-NN	9520210
		M12 Connector	PNP	S5N-MA-5-F01-PP	9520217
			NPN	S5N-MA-5-F01-PP	9520212
		2m Cable	PNP		9520216
	LED, Radial optic			S5N-MR-2-F01-PP	
		M12 Connector	NPN	S5N-MR-5-F01-NN	9520218
Through beam receiver			PNP	S5N-MR-5-F01-PP	9520213
		2m Cable	NPN	S5N-ML-2-F01-NN	9520218
	LASER, Axial optic		PNP	S5N-ML-2-F01-PP	9520214
	• • • • •	M12 Connector	NPN	S5N-ML-5-F01-NN	9520218
			PNP	S5N-ML-5-F01-PP	9520214
			NPN	S5N-MH-2-F01-NN	9520220
		2m Cable			050000
	LASER, Radial optic	2m Cable	PNP NPN	S5N-MH-2-F01-PP S5N-MH-5-F01-NN	9520220 9520220

		2m Cable	-	S5N-MA-2-G00-XG	952021
	LED, Axial optic	M12 Connector	-	S5N-MA-5-G00-XG	952021
	LED Radial antia	2m Cable	-	S5N-MR-2-G00-XG	952021
Through beam emitter	LED, Radial optic	M12 Connector	-	S5N-MR-5-G00-XG	952021
ini ougri bearri ernitter	LASER, Axial optic	2m Cable	-	S5N-ML-2-G00-XG	952021
	EASEN, Axial Optic	M12 Connector		S5N-ML-5-G00-XG	952021
	LASER, Radial optic	2m Cable	-	S5N-MH-2-G00-XG	952022
		M12 Connector	-	S5N-MH-5-G00-XG	952022
Background suppression		2m Cable	NPN	S5N-MA-2-M03-NN	952021
Bacitgi baria sappi costori	LED, Axial optic	Zin ousie	PNP	S5N-MA-2-M03-PP	952021
			PNP	S5N-MA-5-M03-PP	952021
Background suppression		M12 Connector	O IO-Link	S5N-MA-5-M03-0Z	952022
	LED, Radial optic		PNP	S5N-MS-5-M03-PP	952021
	•		PNP	S5N-MS-2-M03-PP	952021
		2m Cable	NPN	S5N-MA-2-T01-NN	952021
	LED, Axial optic		PNP	S5N-MA-2-T01-PP	952021
		M12 Connector	NPN	S5N-MA-5-T01-NN	952021
Retroreflective for transparent			PNP	S5N-MA-5-T01-PP	952021
		2m Cable	NPN PNP	S5N-MR-2-T01-NN S5N-MR-2-T01-PP	952021 952021
	LED, Radial optic				952021
		M12 Connector	NPN PNP	S5N-MR-5-T01-NN S5N-MR-5-T01-PP	952021
Luminescence		M12 Connector	PNP	S5N-MR-5-101-PP S5N-MA-5-U03-PP	952021
Lummescence		2m Cable	PNP	S5N-MA-5-003-PP S5N-MA-2-W03-PP	952021
Contrast	LED, Axial optic	ZIII Cable	NPN	S5N-MA-5-W03-NN	952021
Contrast		M12 Connector	PNP	S5N-MA-5-W03-PP	952021
	- METAL HOUSING - L/D				702021
			NPN	S5N-MA-5-A00-NK	9527018
Retroreflective	-	M12 Connector	PNP	S5N-MA-5-A00-PK	9527015
Polarized retroreflective			NPN	S5N-MA-5-B01-NK	9527018
Polarized retroreflective			PNP	S5N-MA-5-B01-PK	9527017
		2m Cable	NPN	S5N-MA-2-C01-NK	9527016
			PNP NPN	S5N-MA-2-C01-PK	9527015 9527018
	LED, Axial optic	M12 Connector	PNP	S5N-MA-5-C01-NK S5N-MA-5-C01-PK	9527018
Diffuse proximity			NPN	S5N-MA-2-C10-NK	9527016
		2m Cable	PNP	S5N-MA-2-C10-PK	9527015
			NPN	S5N-MA-5-C10-NK	9527018
			PNP	S5N-MA-5-C10-PK	9527015
Through hears reasiver		M12 Connector	NPN	S5N-MA-5-F00-NK	9527018
Through beam receiver			PNP	S5N-MA-5-F00-PK	9527017
		2m Cable	-	S5N-MA-2-G00-XG	9520210
	LED, Axial optic	M12 Connector	-	S5N-MA-5-G00-XG	9520212
		2m Cable	-	S5N-MR-2-G00-XG	9520211
T I II	LED, Radial optic	M12 Connector	-	S5N-MR-5-G00-XG	9520213
Through beam emitter		2m Cable	-	S5N-ML-2-G00-XG	9520214
	LED, Axial optic	M12 Connector		S5N-ML-5-G00-XG	9520214
		2m Cable	-	S5N-MH-2-G00-XG	9520220
	LED, Radial optic	M12 Connector	_	S5N-MH-5-G00-XG	9520220
	S5N - INOX HOUSING - L		ELS (S5N-NA		
Polarized retroreflective			NPN	S5N-NA-5-B01-NK	9523014
Foldrizeu ren orellective			PNP	S5N-NA-5-B01-PK	9523013
Diffuse proximity Inox			NPN	S5N-NA-5-C11-NK	9523014
			PNP NPN	S5N-NA-5-C11-PK S5N-NA-5-F01-NK	9523014 9523015
Through beam receiver Inox	LED, Axial optic	M12 Connector	PNP	S5N-NA-5-F01-NK	9523015
Through beam emitter inox	, p		-	S5N-NA-5-G01-XG	9523014
Background suppression inox			NPN	S5N-NA-5-M01-NK	9523015
Dackyrounu suppression inox			PNP	S5N-NA-5-M01-PK	9523014
			NPN	S5N-NA-5-T01-NK	9523014

ACCESSORIES







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R15

ø25

35°

Ø4

ø18,5

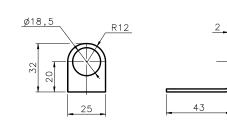
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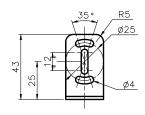
R5

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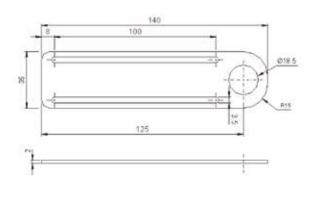


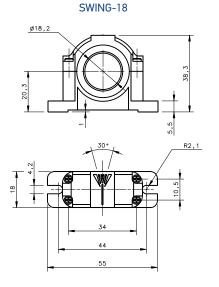




ST-5017

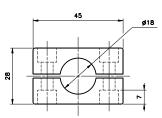
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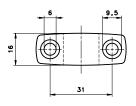


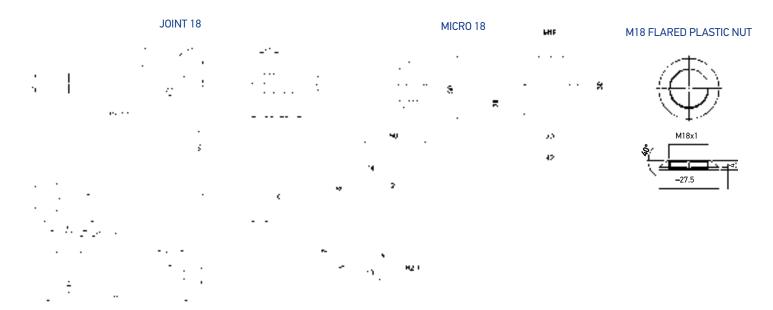


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mm

MODEL	DESCRIPTION	ORDER No.
ST-5010	M18/14 mounting bracket	95ACC5230
ST-5011	M18 mounting bracket short	95ACC5240
ST-5012	M18 mounting bracket long	95ACC5250
ST-5017	M18 mounting bracket	95ACC5270
S50 EASY -IN	M18/14 EASY in™ adjustable mounting support	95ACC 5300
JOINT -18	M18 jointed support	95ACC 5220
MICRO -18	support with micrometric regulation for tubular M18 sensors	95ACC 1380
SP-40	mounting bracket tubular	95ACC1370
SWING-18	adjustable support for M18 tubular sensors	89500006
PLASTIC NUT	flared mounting nut	95ACC2630
M18 FLARED NUT	S5N mounting nut M18 flared nut (1 pc)	95ACC2630
M18 METAL NUT	S5N mounting nut M18 nut (1 pc)	G602000017
M18 PLASTIC NUT KIT	S5N mounting nut M18 nuts kit (100 pcs)	G60200008
MEK -PROOF	front protection (only for metal models)	G5000001

IO-LINK CONNECTIVITY

MODEL	DESCRIPTION	ORDER No.
CBX-8I0L-EIP	CBX-8IOL-EIP 8P IOL M12 EIP MASTER	95ACC8180
CBX-8I0L-PNI0	CBX-8I0L-PNI0 8P IOL M12 PROFINET MASTER	95ACC8190

CABLES

	DESCRIPTION		MODEL	ORDER No.
		3 m	CS-A1-02-G-03	95A251380
	(polo grov DVC	5 m	CS-A1-02-G-05	95A251270
Axial M12 Connector	4-pole, grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280
Axial MTZ Connector		10 m	CS-A1-02-G-10	95A251390
		2 m	CS-A1-02-R-02	95A251540
	4-pole, P.U.R.	5 m	CS-A1-02-R-05	95A251560
		3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
De diel M12 Commenter	4-pole, grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245
Radial M12 Connector		10 m	CS-A2-02-G-10	95A251260
		2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
-		3 m	CS-A2-12-G-03	95A251400
Radial M12 Connector with LED	4-pole, grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(for PNP N.O. sensors)		10 m	CS-A2-12-G-10	95A251370
		3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
Axial M12 Connector	4-pole, shielded, black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
	F. V.C.	15 m	CV-A1-22-B-15	95ACC2070
		25 m	CV-A1-22-B-25	95ACC2090
		3 m	CV-A2-22-B-03	95ACC1540
Radial M12 Connector	4-pole, shielded, black, P.V.C.	5 m	CV-A2-22-B-05	95ACC1550
	F.V.C.	10 m	CV-A2-22-B-10	95ACC1560
		3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
Assist M12 Commonstern	4-pole, U.L., black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140
Axial M12 Connector	-	15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	4-pole, black	Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003
Axial M12 Connector	5-pole, L coded power cable	3 m	CS-M1-02-B-03	95ACC0007
Axial M12 F/M12 M Connector	4-pole, double headed	3 m	CS-I1-02-B-03	95ACC0009

00,11/2021

DATALOGIC PRODUCT OFFERING

















Sensors

Hand Held scanners

Mobile Computers

Laser Marking Systems

Safety Laser Scanner

Vision Systems

Stationary Industrial Scanners

Safety Light Curtains

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products. Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.



European Patent 851,211 B1; 1,111,690 B1; 1,148,346 B1; 1,209,487 B1. Italian Patent IT 1.321.772.

S5N-Px-...-PP/NN SERIES **INSTRUCTION MANUAL**

CONTROLS

OUTPUT LED (S5N-Px...A00/B01/C01/C10/C21/D00/E01/F01/T01) The yellow LED ON indicates that the NO output status is closed.

STABILITY LED (S5N-Px...B01/C01/C21/E01/F01)

The green LED ON indicates that the received signal has a reserve greater than 30% compared to the output switching value. POWER ON LED (S5N-Px...G00)

The green LED indicates that the sensor is operating.

TRIMMER (S5N-Px...B01/C01/C21/E01/F01/T01)

The trimmer can be used to adjust sensitivity; the operating distance increases turning the trimmer clockwise.

WARNING: The trimmer rotation is limited to 270° by a mechanical stop. Do not apply excessive torque when adjusting (max 40 Nmm).

INSTALLATION

The sensor can be fixed by means of the M18x1 threaded body through a Ø 18mm hole, using the specific washer and the two CH.24 nuts enclosed (1.5Nm maximum tightening torque).

Alternatively, the sensor can be mounted through the two housing's holes using two screws (M3x22 or longer) and washer.

Amongst the various possible solutions, we suggest to choose the combination that offers the best visibility of the signalling LEDs and the easiest access to the trimmer.

Wide range of accessories available: 22mm nuts, h=8mm, (2Nm maximum tightening torque) guarantee an improved torque and various orientable fixing brackets ease the sensor

positioning (please refer to the accessories listed in the general catalogue). The operating distance is measured from the front surface of the sensor lens. C models: To improve the detection, the

object has to be moved closer or further away from the front surface of the sensor lens. In case of lateral translation, the object must move as indicated in the figure



Radial vers

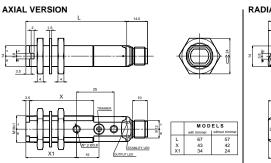
CONNECTIONS

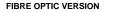
The connections are compliant to the EN 60947-5-2 standard.

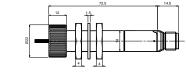
		S	5N-Px	G00
BROWN	↓ 10 30 Vdc	BROWN	1+	10 30 Vdc
WHITE	NC OUTPUT	WHITE	2	TEST +
BLACK	NO OUTPUT	BLACK	4	TEST -
BLUE	3 ov	BLUE	3	0 V

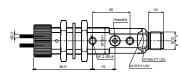
M12 CONNECTOR









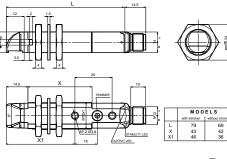


TECHNICAL DATA

	S5N-PA AXIAL VERSION	S5N-PR RADIAL VERSION				
Power supply:	10 30 Vdc (limit values)					
Ripple:	2 Vpp max.					
Current consumption	35 mA max.					
(output current excluded):	35 III/	A IIIdA.				
Outputs:	NO and NC; PNP or NPM	(short-circuit protection)				
Output current:	100 m.	A max.				
Output saturation voltage:	2 V	max.				
Response time:	0.5 ms (2 ms	mod.F01/G00)				
Switching frequency:	1KHz (250 Hz	mod.F01/G00)				
Indicators:	OUTPUT LED (YELLOW) excluding mod.G00					
	STABILITY LED (GREEN) (mod.B01/C01/C21/E01/F01)					
	POWER ON LED (G					
Setting:	sensitivity trimmer (mod.B					
Operating temperature:	-25	55 °C				
Storage temperature:	-25 70 °C					
Insulating strength:	500 Vac 1 min., between electronics and housing					
Insulating resistance:	>20 MΩ 500 Vdc, between electronics and housing					
Operating distance (typical values):	A00: 0.14 m on R2	B01: 0.12 m on R2				
	B01: 0.13.5 m on R2	C01: 035 cm				
	C01: 060 cm	C10: 08 cm				
	C10: 010 cm	D00: 08 cm				
	C21: 035 cm	F01/G00: 020 m				
	D00: 0.510 cm	T01: 0.11 m on R2				
	F01/G00: 025 m	101. 0.11 III 0II R2				
	E01: 30 mm with OF-42 / 100 mm with OF-43					
	T01: 0.11 m on R2					
Emission type:		red (660 nm) (mod.B01/T01) /				
	infrared (880nm) (mod.					
Ambient light rejection:		EN 60947-5-2				
Vibrations:	0.5 mm amplitude, 10 55 Hz freq					
Shock resistance:	11 ms (30 G) 6 shock for e					
Housing material:	PI					
Lens material:		MA				
Mechanical protection:	IP	67				
Connections:	2 m cable Ø 4 mm / N	112 - 4 pole connector				
Weight:	75 g. max. cable vers. / 2	5 g. max. connector vers.				
AtEx 2014/34/EU:	II 3D EX tc IIIC IP67 T85°C					

DIMENSIONS

RADIAL VERSION



CABLE VERSION



OFF. Position the target to detect in front of the sensor or of the fibre terminals. Turn the sensitivity trimmer clockwise until the yellow LED turns ON (Target

detected state, pos.A). Remove the target, the yellow LED turns OFF.

progressively reducing the sensitivity.

Turn the sensitivity trimmer clockwise until the yellow LED turns ON (Background detected state, pos.B).

The trimmer reaches maximum if the background is not detected.

Setting of S5N-Px...C01/C21/E01 with OF-42 (proximity fibre)

Turn the trimmer to the intermediate position C, between the two positions A and B. The green LED must be ON.

Setting of S5N-Px...C10/D00

The operating distance range of these sensors is factory preset: please consider this feature when positioning.

TEST FUNCTION (S5N-Px...G00)

The TEST+ and TEST- inputs can be used to inhibit the emitter and verify that the system is correctly operating. The receiver output should switch when the test is activated while the beam is uninterrupted The inputs activating voltage range is 10 ... 30 VDC.

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SETTING

Setting of S5N-Px...A00 Position the sensor and reflector on opposite sides.

Find the points where the yellow LED (OUT) is wswitched ON and OFF in both vertical and horizontal posizionts, and fix the sensor in the center between these points.

Setting of S5N-Px...B01/T01

Position the sensor and reflector on opposite sides.

Turn the sensitivity trimmer to the maximum position.

yellow LED turns OFF (Operating condition, pos.B).

Position the sensors (fibre terminals) on opposite sides.

Moving the sensor both vertically and horizontally, determine the power on and off points of the yellow LED (OUT) and then mount the sensor in the middle of the points defined. Optimum operation is obtained when the green LED (mod.B01) is ON and the yellow LED is OFF.

vellow LED turns ON (pos.A). Turn slowly the trimmer again clockwise until the

Turn the sensitivity trimmer to maximum: moving the sensor both vertically and

horizontally, determine the power on and off points of the yellow LED (OUT) and then mount the sensor in the middle of the points defined. Optimum operation is

obtained when the green LED is ON and the yellow LED is OFF (the output

function and the relative LEDs are inverted in the E01 model with the OF-43 fibre). If necessary, reduce sensitivity using the trimmer, in order to detect very small

targets. In order to improve alignment, repeat the procedure detailed above whilst

Turn the sensitivity trimmer to minimum: the green LED is ON, the yellow LED is

B01 models: If necessary reduce sensitivity in order to detect very small targets. In order to improve alignment, repeat the procedure detailed above whilst progressively reducing the sensitivity. T01 model: Turn the sensitivity trimmer counterclockwise until the

Setting of S5N-Px...F01/G00/E01 with OF-43 (P/R fibre-optics)

