

S5N**DATALOGIC**

(*) Stainless steel models. ATEX II 3DG

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		0...25 m (S5N-PP/NN; S5N-Px/Mx...PK/NK models) 0...20 m (S5N-SA/NA models) 0...60 m (class 1 LASER S5N...PP/NN models)
Retroreflective (on R2 reflector)		0,1...4 m (S5N-PP/NN; S5N-Px/Mx...PK/NK models)
Polarized retroreflective (on R2 reflector)		0,1...3m (S5N-Px/Mx...PK/NK models) 0,1...4 m (S5N...PP/NN; S5N-SA/NA models) 0,1...16 m (class 1 LASER S5N...PP/NN models)
Retroreflective for transparent (on R2 reflector)		0,1...0,8 m (S5N-SA/NA) 0,1...1,3 m (S5N...PP/NN models)
Diffuse proximity		short distance 0...100 mm (all models) medium distance 0...400 mm (S5N...PP/NN models) medium distance 0...350 (S5N-SA/NA models) medium distance 0...450 (S5N-Px/Mx...PK/NK models) long distance 0...700 ammm (S5N...PP/NN models) long distance Laser 0...350 mm (S5N...PP/NN models)
Fixed focus		50 mm (S5N-SA/NA models) 100 mm (S5N...PP/NN models)
Background suppression		40...120 mm (S5N-SA/NA models) 50...150 mm (S5N...PP/NN models)
Through beam with fiber optic		0...100 mm (S5N...PP/NN models)
Diffuse proximity with fiber optic		0...30 mm (S5N...PP/NN models)
Contrast sensor		10 ±2 mm (S5N...PP/NN models)
Luminescence sensor		0...20 mm (S5N...PP/NN models)
Power supply	Vdc	10...30 V
	Vac	
	Vac/dc	
Output	PNP	•
	NPN	•
	NPN/PNP	
	relay	
	other	IO-Link v 1.1
Connection	cable	•
	connector	•
	pig-tail	•
Approximate dimensions (mm)		M18 x (see mechanical drawings)
Housing material		PBT, Nickel plated Brass (S5N-PP/NN; S5N-Px/Mx...PK/NK models) ABS, AISI 316 L Stainless steel inox (S5N-SA/NA models)
Mechanical protection		IP67 (S5N-PP/NN; S5N-Px/Mx...PK/NK models) IP65 - IP67 - IP69K (S5N-SA/NA)

TECHNICAL DATA

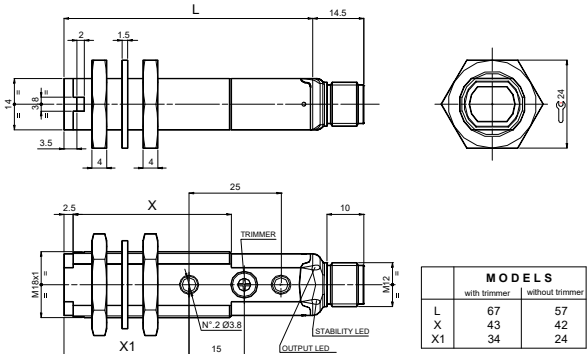
Power supply	10 ... 30 Vdc (limit values all models)
Ripple	2 Vpp max. (all models)
Consumption (output current excluded)	35 mA max. (all models)
Light emission	red LED 630 nm (mod. S5N...D00/E01, S5N-PA/MA...M03) red LED 660 nm (mod. S5N...B01...PP/NN/PK/NK; S5N...T01...PP/NN) - (mod. S5N-SA/NA...B/D/T/M) red LED 670 nm (mod. S5N-PS/MS...M03...PP/NN) IR LED 880 nm - (mod. S5N-Px/Mx...A00/C01/C10/C21/G00...PP/NN/PK/NK) - (mod. S5N-SA/NA...A/C/G) white LED 400-700 nm (mod. S5N...W03...PP/NN) UV LED 370 nm (mod. S5N...U03...PP/NN) red Laser 650 nm (mod. S5N-PH/PL...G00/B01/C01...PP/NN)
Setting	sensivity trimmer 270° and without trimmer model (see mech drawings) 4 turns sensivity trimmer (mod. S5N-Px/Mx...M01...PK/NK) teach-in push-button (mod. S5N...M03/W03/U03...PP/NN)
Operating mode	LIGHT mode on N.O. output / DARK mode on N.C. output (mod.S5N...C01/C10/C21/D00/M03/U03...PP/NN) DARK mode on N.O. output / LIGHT mode on N.C. output (mod.S5N...A00/B01/E01/F01/T01/W03...PP/NN) L/D input white wire or pin 2, if pin not connected on S5N-Px/Mx...PK/NK: LIGHT mode (mod. S5N-Px/Mx...C/D/M...PK/NK) DARK mode (mod. S5N-Px/Mx...A/B/T/F...PK/NK) white wire or pin 2 connected to: 0 V DARK mode, +Vcc LIGHT mode
Indicators	yellow OUTPUT LED (S5N, excl. mod. G00) green STABILITY LED (mod. S5N...B01/C01/C21/E01/F01/W03/U03), POWER LED (mod. S5N...G00) green/red READY/ERROR LED (mod. S5N...M03...PP/NN)
Output	PNP or NPN; NO; NC (mod. S5N...PP/NN) PNP or NPN (mod. S5N-Px/Mx...PK/NK) IO-Link v 1.1 (mod.S5N...OZ)
IO-Link interface	(mod.S5N...OZ) 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)
Response time	0,5 ms (mod. S5N...A00/B01/T01/C10/C21/C01/D00/E01/U03...PP/NN) - (mod. S5N-Px/Mx...D00...PK/NK) 2 ms (mod. S5N...F01/G00...PP/NN) - (mod. S5N-Px/Mx...F00...PK/NK) 1 ms (mod. S5N...M03...PP/NN) - (mod. S5N-Px/Mx...A/B/C/T/M...PK/NK) 100 µs (mod. S5N...W03...PP/NN) 333 µs (mod. S5N-PH/PL...PP/NN Laser emission models)
Switching frequency	1 kHz (mod. S5N...A00/B01/T01/C10/C21/C01/D00/E01/U03...PP/NN) - (mod. S5N-Px/Mx...D00...PK/NK) 250 Hz (mod. S5N...F01/G00...PP/NN) - (mod. S5N-Px/Mx...F00...PK/NK) 500 Hz (mod. S5N...M03...PP/NN) - (mod. S5N-Px/Mx...A/B/C/T/M...PK/NK) 100 µs (mod. S5N...W03...PP/NN) 333 µs (mod. S5N...PP/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/Mx...PK/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)
Housing material	PBT, Nickel plated Brass (S5N-Px/Mx...PP/NN/PK/NK models) ABS, AISI 316 L Stainless steel inox (S5N-SA/NA models)
Lens material	PMMA (all models)
Operating temperature	-25 ... 55 °C (Laser mod.) -10 ... 50 °C
Storage temperature	-25 ... 70 °C
Weight	Plastic version 75 g max. cable vers. (90 g max. mod. M03), 25 g max. conn. vers. (40 g max. mod. M03) Metal version 110 g max. cable vers. (125 g max. mod. M03), 60 g max. conn. vers. (75 g max. mod. M03)

DIMENSIONS

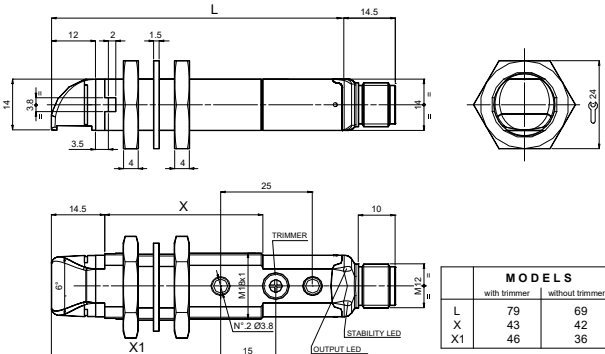
S5N...NN/PP MODELS

PLASTIC

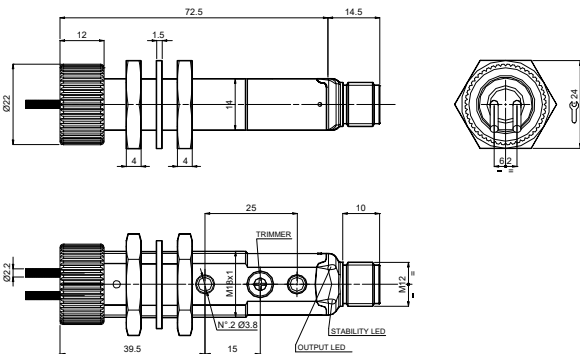
AXIAL VERSION



RADIAL VERSION

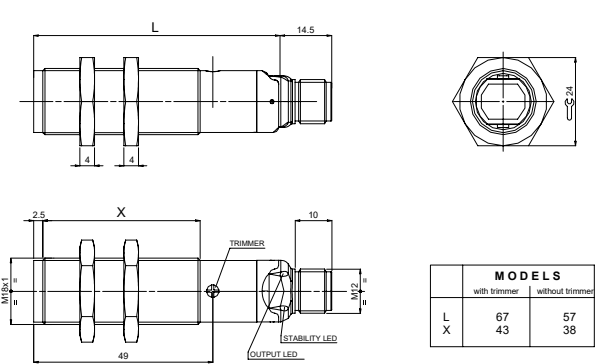


FIBRE OPTIC VERSION

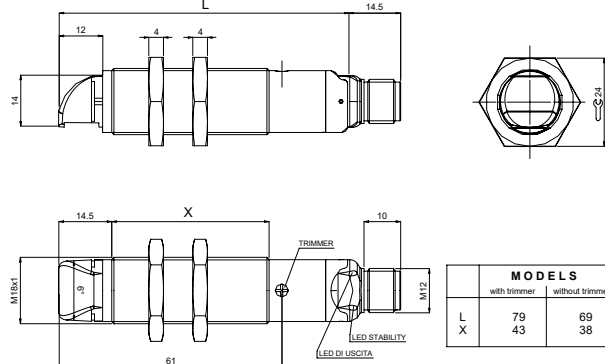


METAL

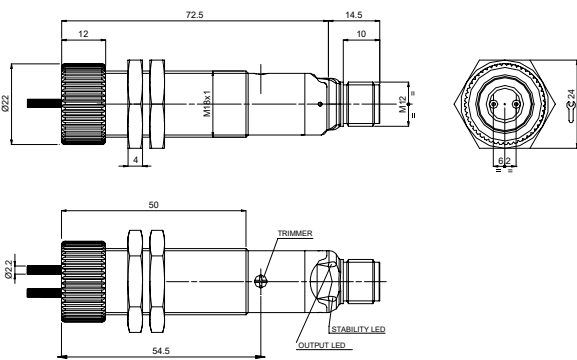
AXIAL VERSION



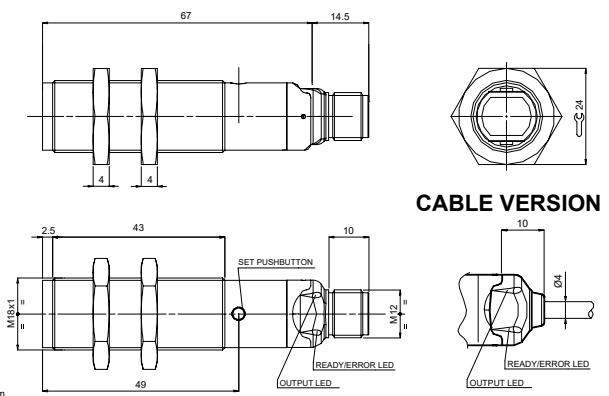
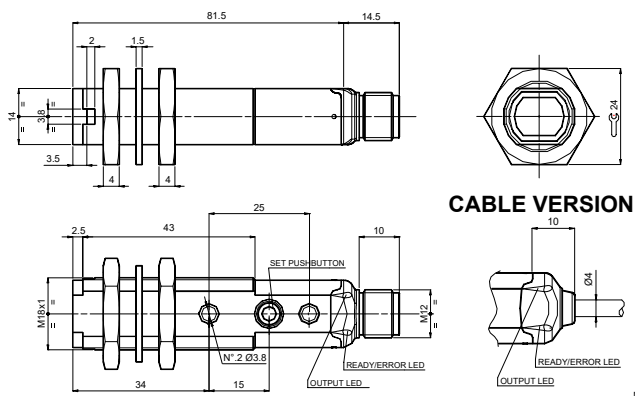
RADIAL VERSION



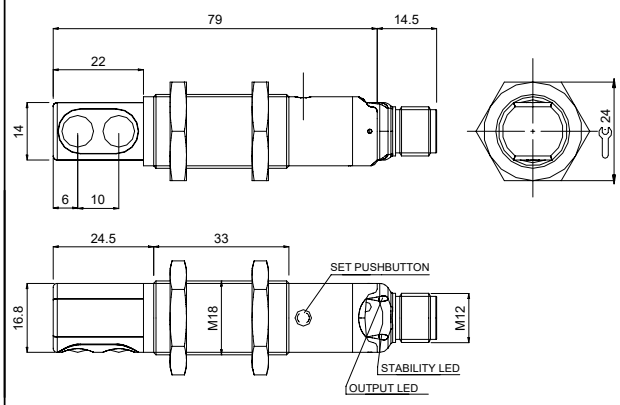
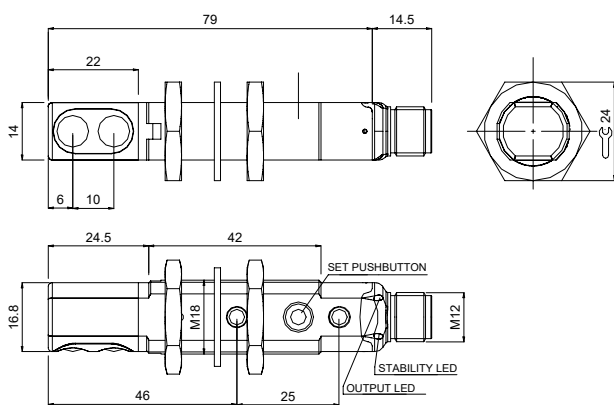
FIBRE OPTIC VERSION



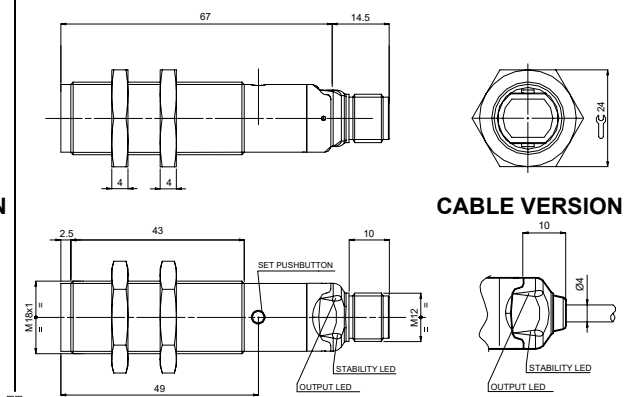
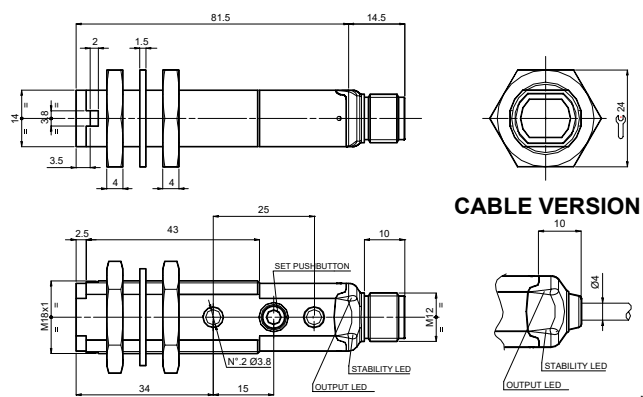
PLASTIC



PLASTIC



PLASTIC



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

CABLE VERS.

MODELS		
	B01/C01/F00	A00/C10/G00
L	79	69
X	43	38

10

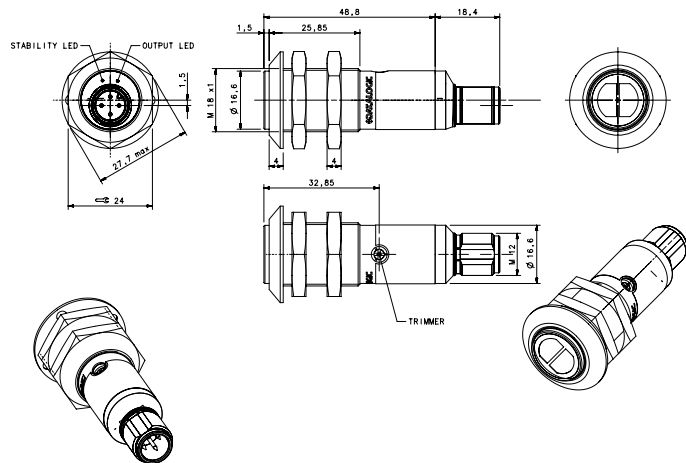
Ø4

OUTPUT LED
POWER ON LED (S51-...G00)

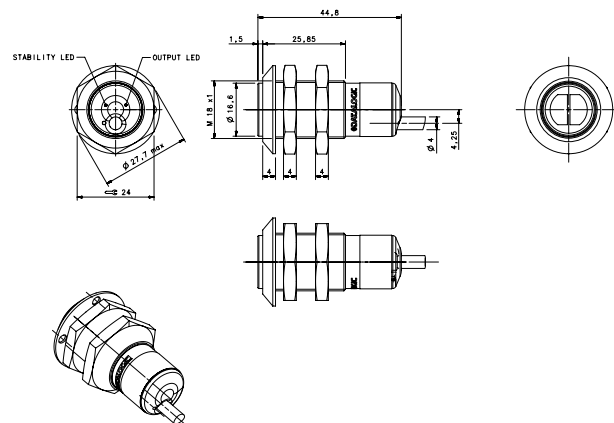
S5N-SA MODELS

PLASTIC

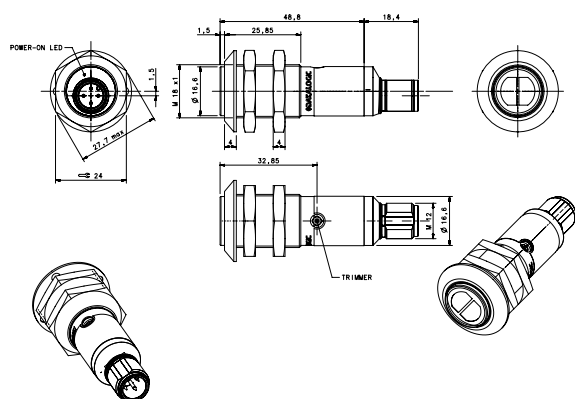
M12 connector version



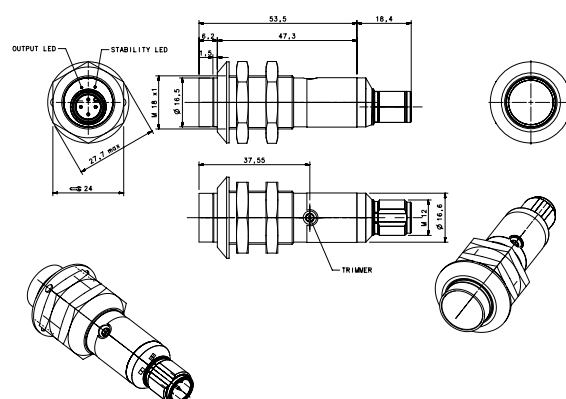
Cable version



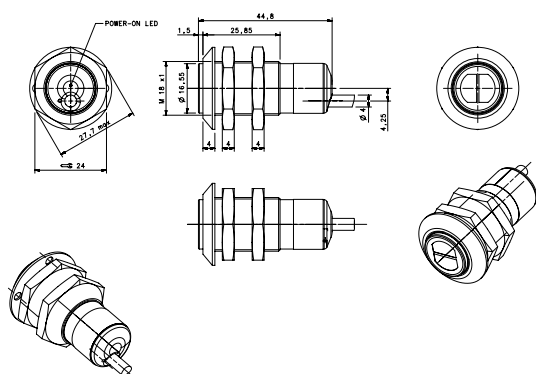
Through beam emitter - M12 connector version



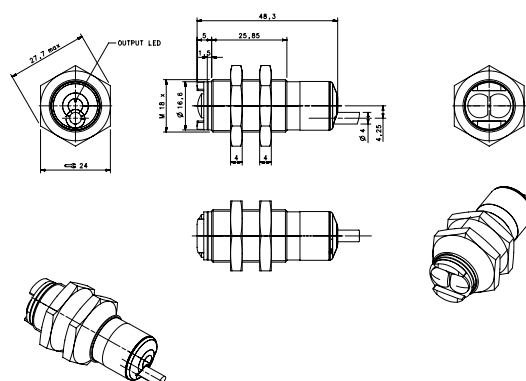
Background suppression - M12 connector version



Through beam emitter - cable version



Diffuse proximity - cable version

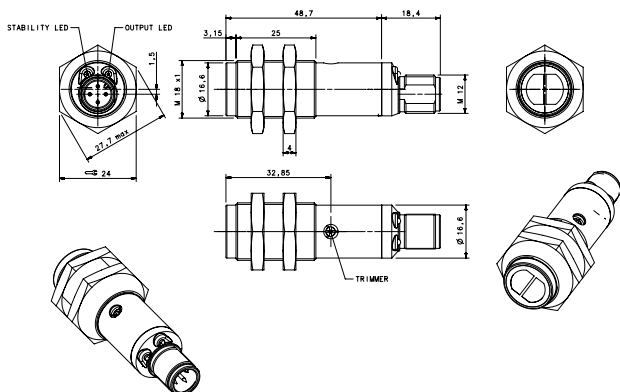


DIMENSIONS

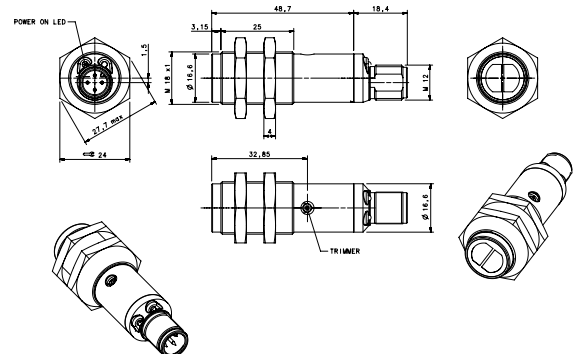
S5N-NA MODELS

STAINLESS STEEL

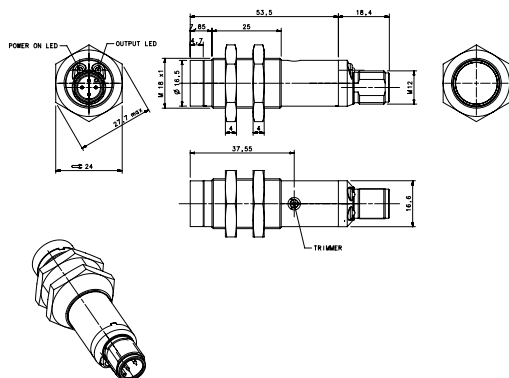
M12 connector version



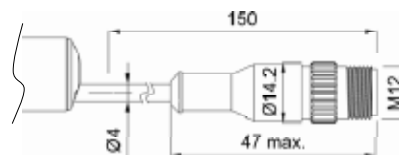
Through beam emitter - M12 connector version



Background suppression - M12 connector version



Pig-tail version

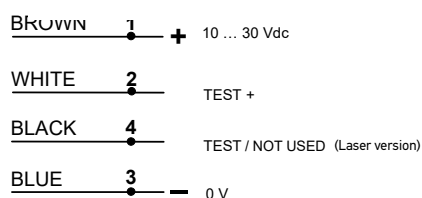
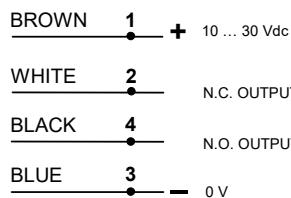


CONNECTIONS

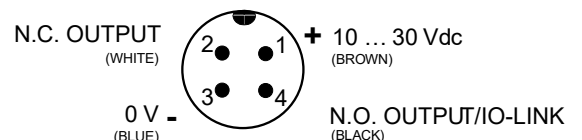
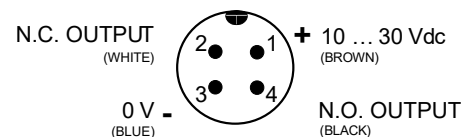
S5N...PP/NN MODELS

CABLE

Through beam emitter

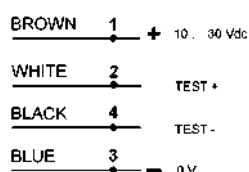


M12 CONNECTOR

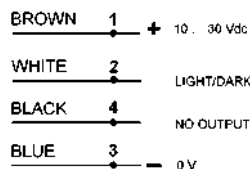


S5N-Px/Mx...PK/NK MODELS

G00 MODEL



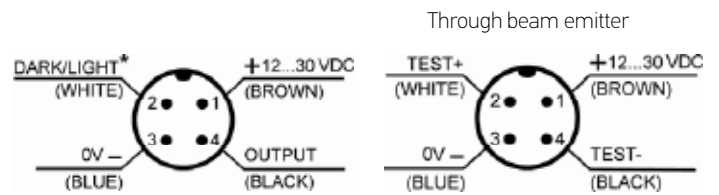
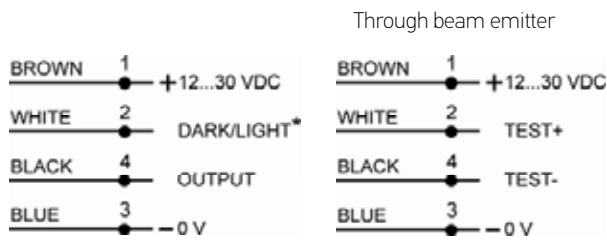
A00/B01/C01/C10/C20/F00 MODELS



S5N...NA/SA MODELS

Cable and Pig-tail

M12 connector



INDICATORS AND SETTINGS

S5N...PP/NN MODELS

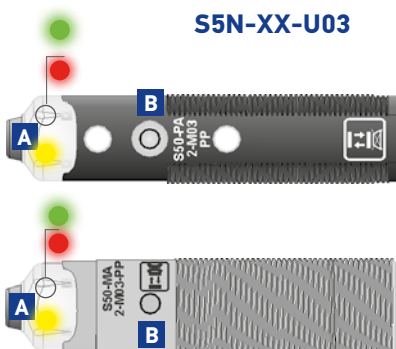
S5N-XX...A00/B01/C01/C21/E01/F01/T01



- A** OUTPUT status LED Yellow
STABILITY LED Green (Only Receiver)
POWER ON LED Green (Only Emitter)
- B** Adjustment trimmer (receiver)

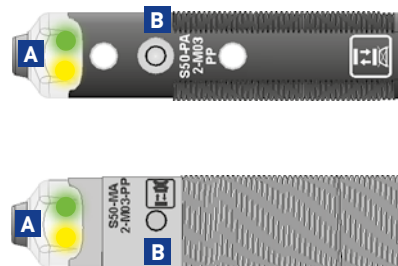
Single-turn trimmer for sensitivity adjustment. Rotate in a clockwise direction to increase the operating distance.

S5N-XX-U03



- A** OUTPUT status LED Yellow
READY LED Green
LED Red error
- B** Teach-in push-button

S5N-XX-M03/W03

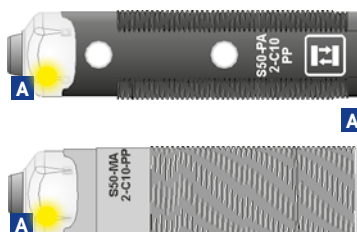


- A** OUTPUT status LED Yellow
READY LED Green
- B** Teach-in push-button

Teach-in button for setting.

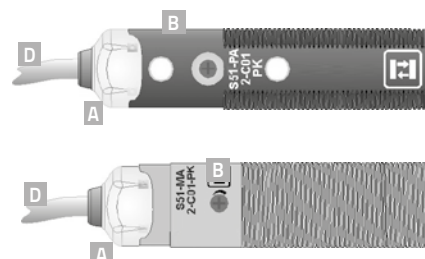
EASyTouch™ provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

S5N-XX-A00/C10/D00



- A** A00/C10
OUTPUT status LED Yellow
- A** G00
OUTPUT status LED yellow
(Only Emitter G00)

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

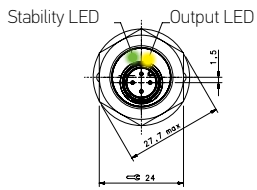


- A** OUTPUT status LED;
POWER ON LED on G00
model
- B** Adjustment trimmer
(B01, C01 models)
- C** M12 connector
- D** Cable connection

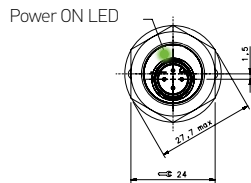
Trimmer for sensitivity adjustment.
Rotate in a clockwise direction to increase the operating distance.

S5N...SA/NA MODELS

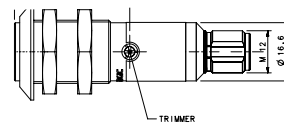
Plastic/metal case with trimmer, M12 connector



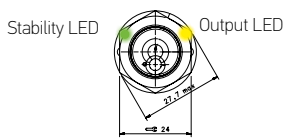
A01, B01, C11, C31, T01, F01, M01



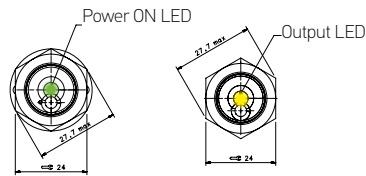
G01



Plastic, no trimmer, Cable, Pig Tail



A00, B00, C10, C00, T01, D50



G00

F00

DETECTION DIAGRAMS

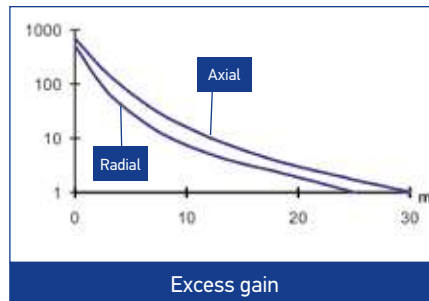
S5N...PP/NN MODELS

THROUGH BEAM (G/F) INFRARED EMISSION

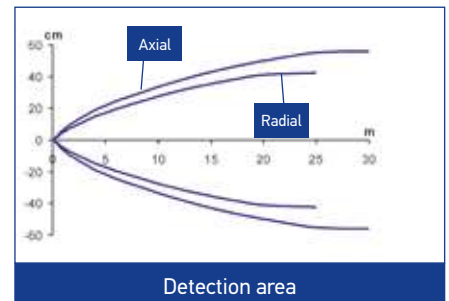
axial			25	30
radial		20	25	

0 15 30 (m)

Recommended operating distance
Maximum operating distance



Excess gain



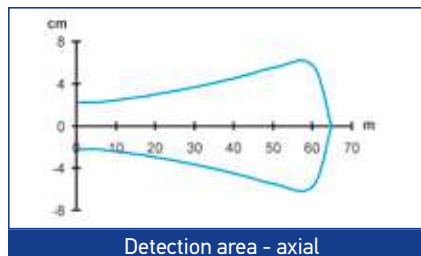
Detection area

THROUGH BEAM (G/F) LASER RED EMISSION

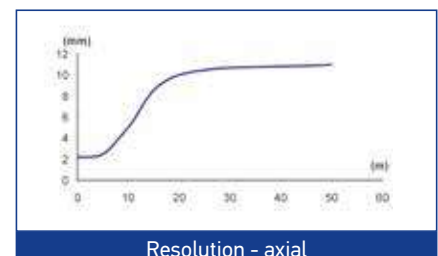
axial				60
radial				50

0 15 30 45 60 (m)

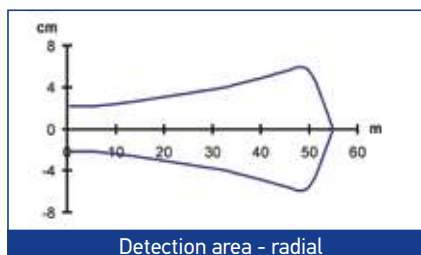
Operating distance



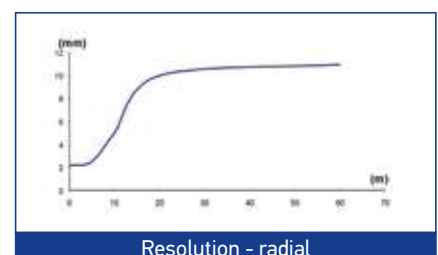
Detection area - axial



Resolution - axial

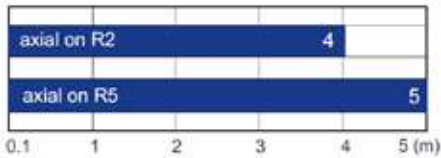


Detection area - radial

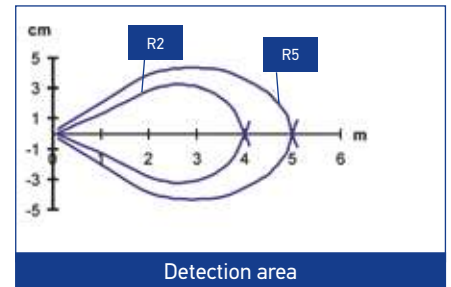
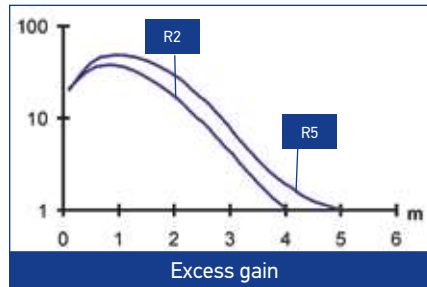


Resolution - radial

RETROREFLECTIVE (A) INFRARED EMISSION



■ Operating distance

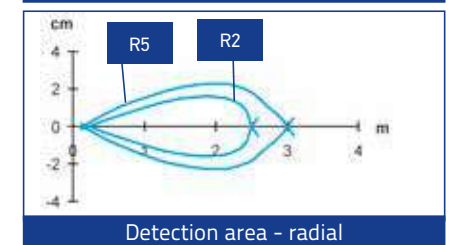
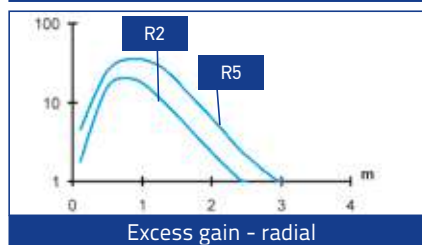
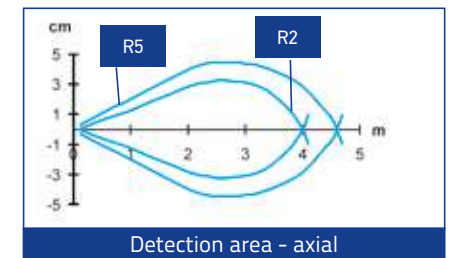
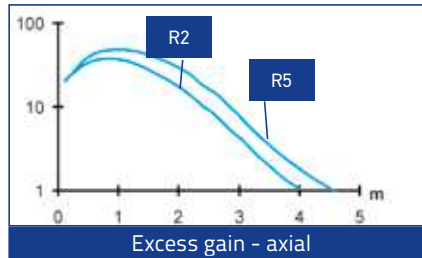


RETROREFLECTIVE POLARIZED (B) RED EMISSION

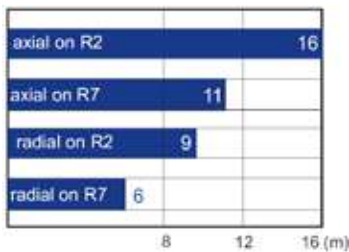


■ Recommended operating distance
■ Maximum operating distance

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

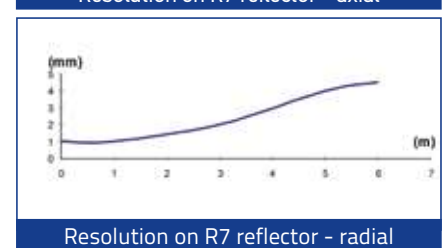
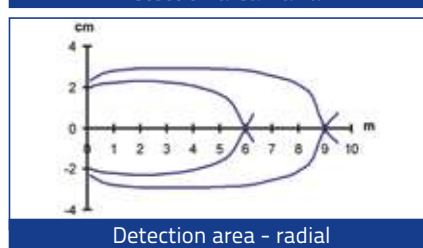
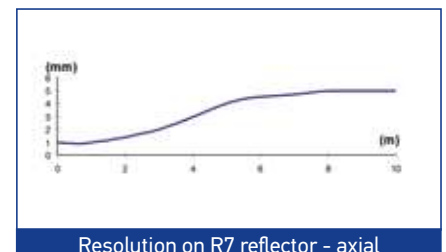
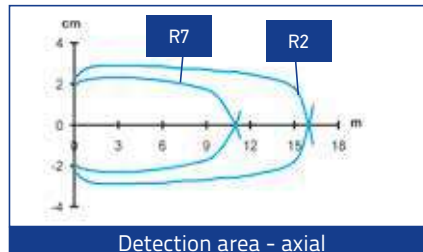


RETROREFLECTIVE POLARIZED (B) LASER RED EMISSION

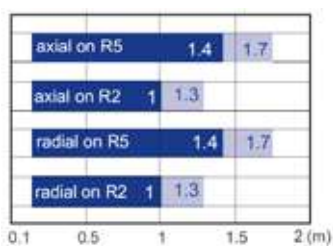


■ Operating distance

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

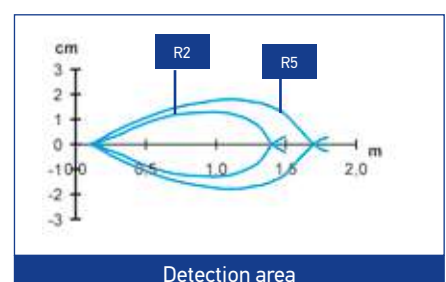
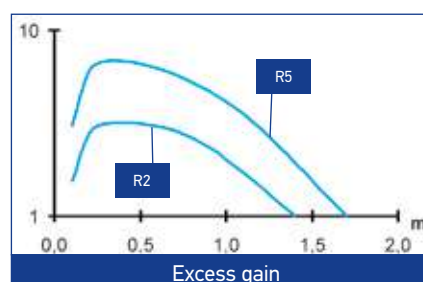


RETROREFLECTIVE TRANSPARENT (T) RED EMISSION

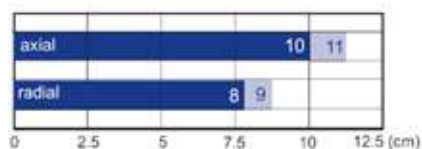


■ Recommended operating distance
■ Maximum operating distance

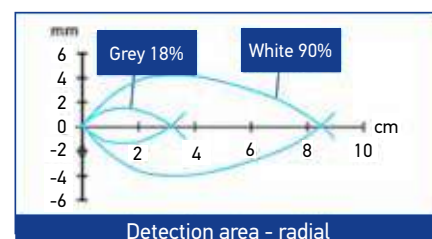
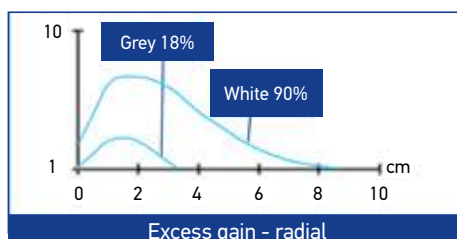
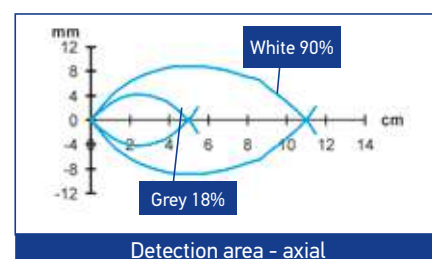
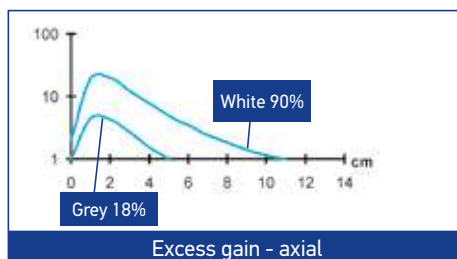
High efficiency reflectors can be used to obtain larger operating distances. Refer to **Reflectors**.



ENERGETIC DIFFUSED (C) SHORT INFRARED EMISSION



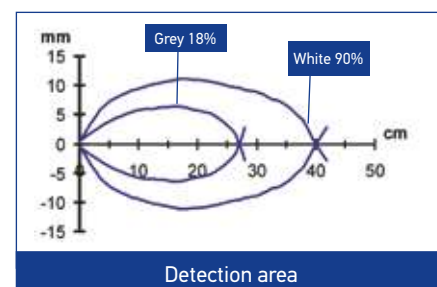
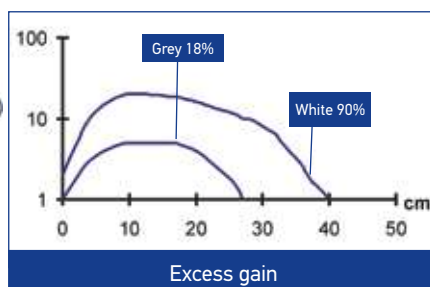
Recommended operating distance
Maximum operating distance



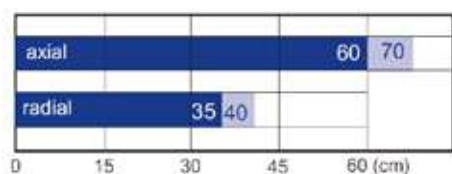
ENERGETIC DIFFUSED (C) MID INFRARED EMISSION



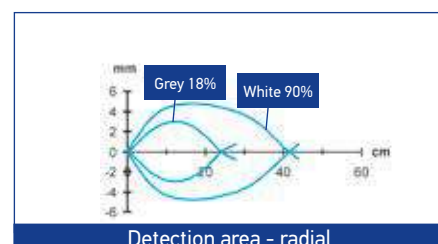
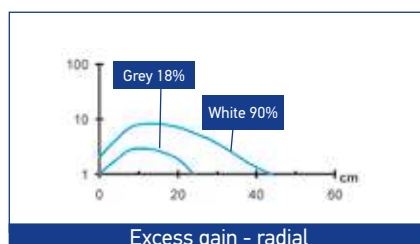
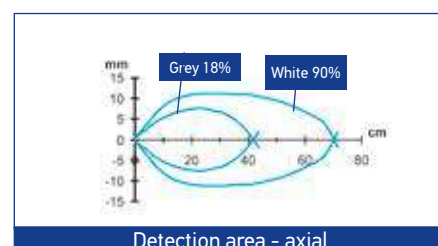
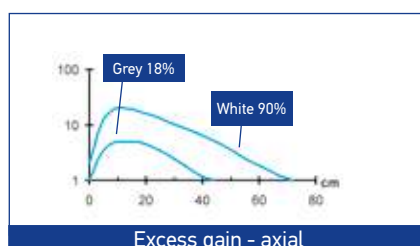
Recommended operating distance
Maximum operating distance



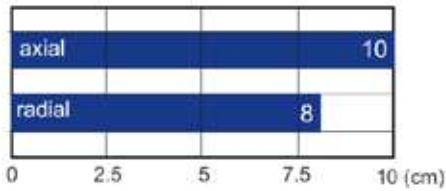
ENERGETIC DIFFUSED (C) LONG INFRARED EMISSION



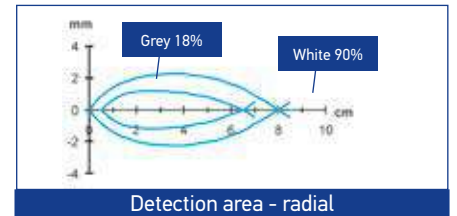
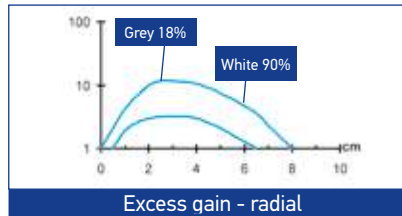
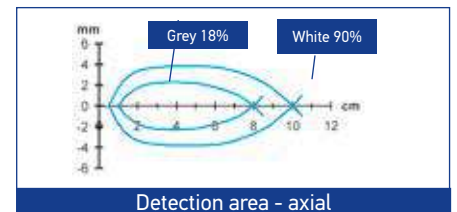
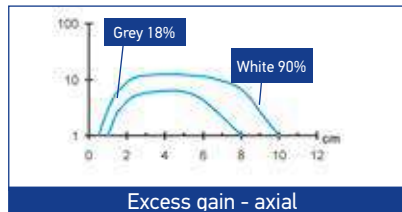
Recommended operating distance
Maximum operating distance



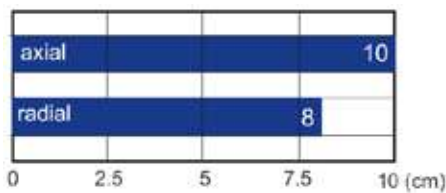
FIXED FOCUS (D) RED EMISSION



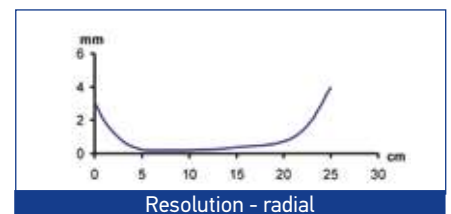
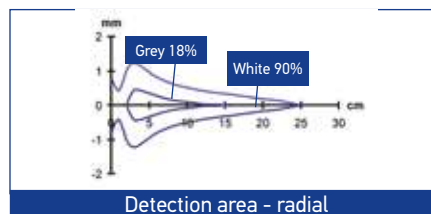
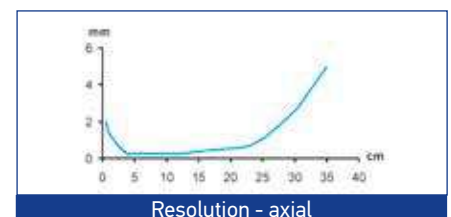
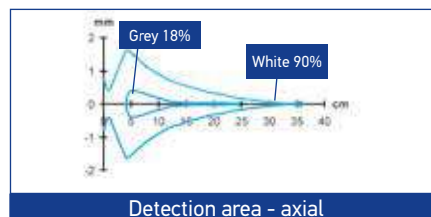
Operating distance



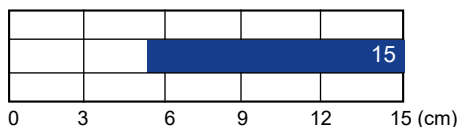
DIFFUSED (C) LASER RED EMISSION



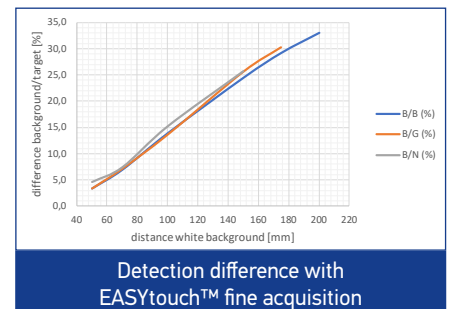
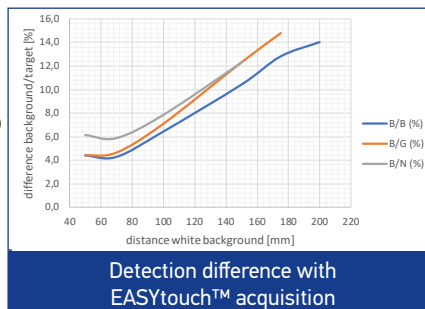
Operating distance



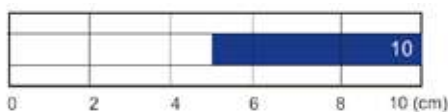
BACKGROUND SUPPRESSOR (M) AXIAL RED EMISSION



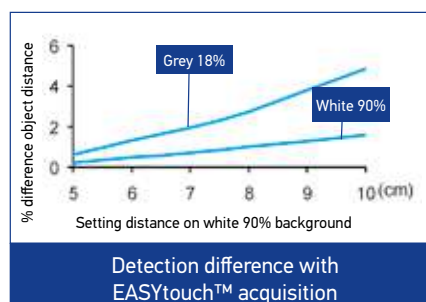
Operating distance



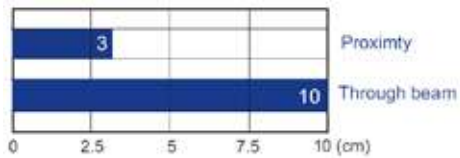
BACKGROUND SUPPRESSOR (M) RADIAL RED EMISSION



Operating distance



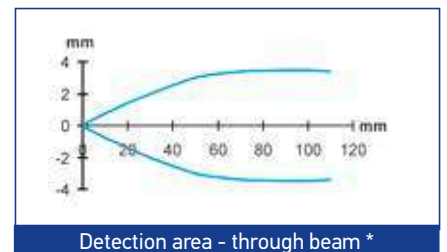
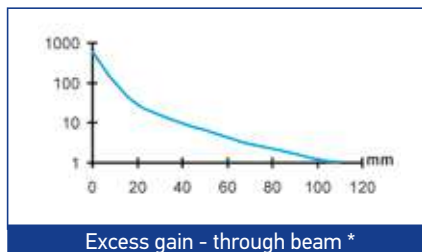
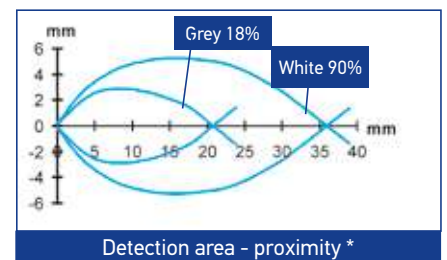
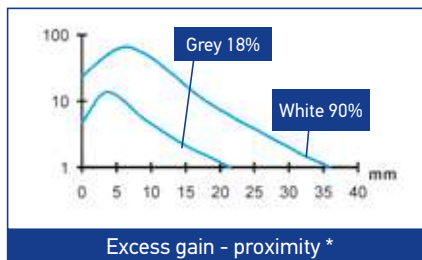
FIBER OPTIC (E) RED EMISSION



Operating distance with standard fibers

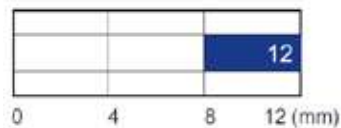
Standard Fiber-optics:
OF-42-ST-20 proximity
OF-43-ST-20 through beam

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

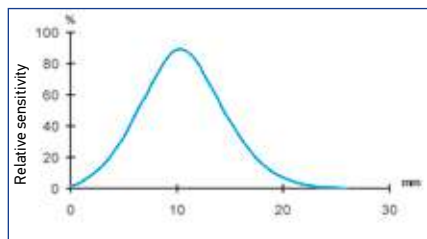


* standard Fiber-optics

MARK READER (W) WHITE EMISSION

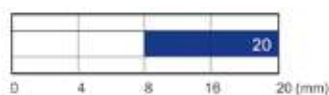


Operating distance

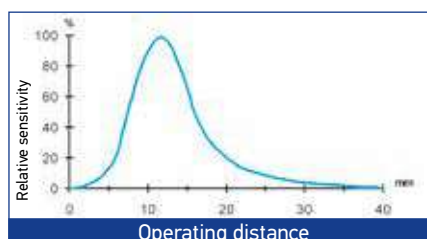


Operating distance

LUMINESCENCE (U) UV EMISSION



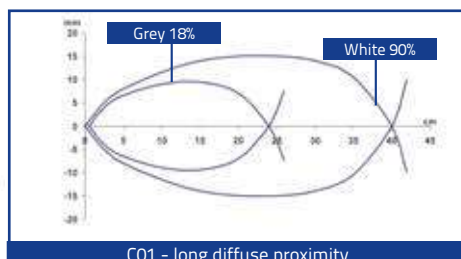
Operating distance



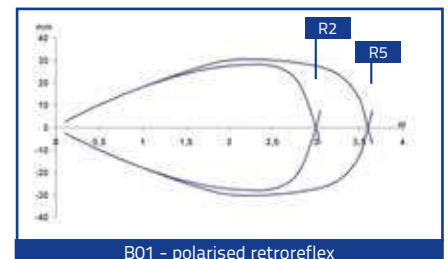
Operating distance

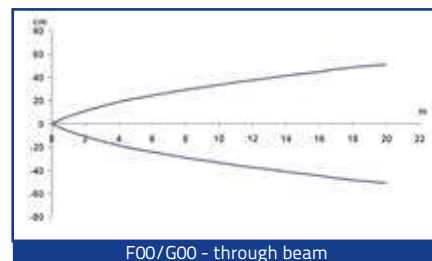
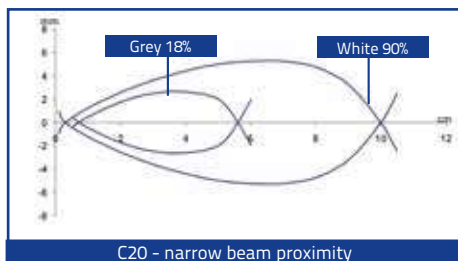
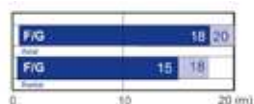
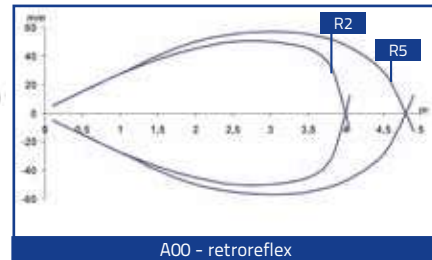
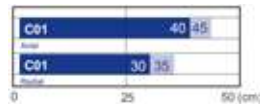
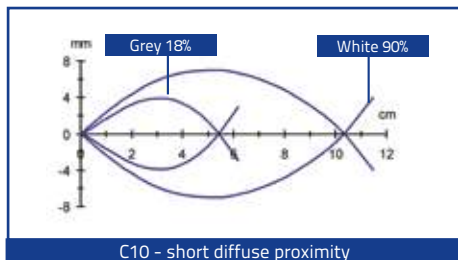
S5N...PK/NK MODELS

A00	3.5	4
Arbitr. on R2		
A00	4	4.5
Arbitr. on R2		
A00	2.5	3
Arbitr. on R2		
A00	3	3.5
Arbitr. on R2		



C10/C20	10
Arbitr. on R2	
C10	8
Arbitr. on R2	

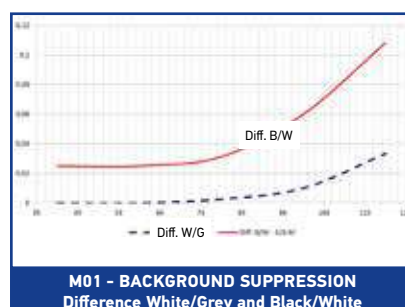
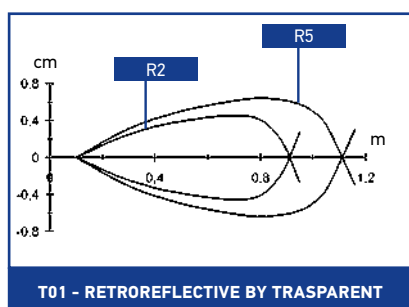
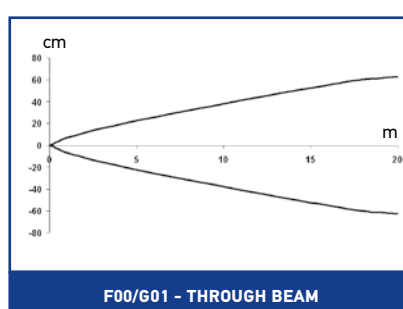
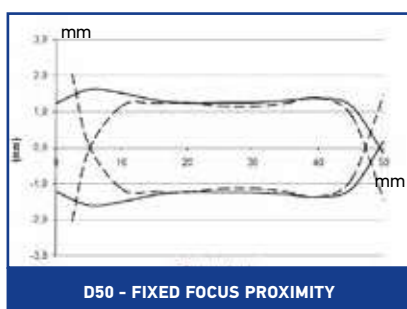
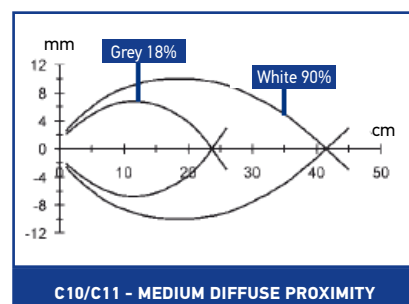
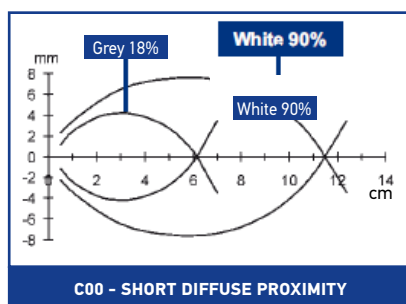
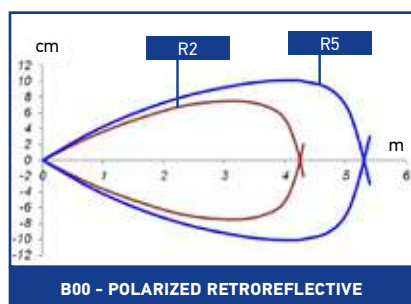




Note: the diagrams indicate the detection area typical of the axial optic versions; the maximum operating distance of the radial optic versions decreases as indicated in the tables given below

Recommended operating distance
Maximum operating distance

S5N-SA/NA MODELS



MODEL SELECTION AND ORDER INFORMATION

S5N - STANDARD PLASTIC HOUSING - NO/NC STANDARD OUTPUT & IO-LINK MODELS (S5N-PA...PP/NN/OZ)					
OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER NO.
Retroreflective	LED, Axial optic	2m Cable	NPN	S5N-PA-2-A00-NN	952002091
		M12 Connector	PNP	S5N-PA-2-A00-PP	952002081
			NPN	S5N-PA-5-A00-NN	952002111
			PNP	S5N-PA-5-A00-PP	952002101
Polarized retroreflective	LED, Axial optic	2m Cable	NPN	S5N-PA-2-B01-NN	952001611
		M12 Connector	PNP	S5N-PA-2-B01-PP	952001011
			NPN	S5N-PA-5-B01-NN	952001501
			PNP	S5N-PA-5-B01-PP	952001021
	LED, Radial optic	2m Cable	IO-Link	S5N-PA-5-B01-OZ	952002200
		M12 Connector	NPN	S5N-PR-2-B01-NN	952001781
			PNP	S5N-PR-2-B01-PP	952001031
			NPN	S5N-PR-5-B01-NN	952001721
			PNP	S5N-PR-5-B01-PP	952001041
	LASER, Axial optic	2m Cable	NPN	S5N-PL-2-B01-NN	952001871
		M12 Connector	PNP	S5N-PL-2-B01-PP	952001361
			NPN	S5N-PL-5-B01-NN	952001841
			PNP	S5N-PL-5-B01-PP	952001371
	LASER, Radial optic	2m Cable	IO-Link	S5N-PL-5-B01-OZ	952002250
		M12 Connector	NPN	S5N-PH-2-B01-NN	952001951
			PNP	S5N-PH-2-B01-PP	952001941
			NPN	S5N-PH-5-B01-NN	952001971
Long Diffuse proximity	LED, Axial optic	2m Cable	PNP	S5N-PH-5-B01-PP	952001961
		M12 Connector	NPN	S5N-PA-2-C01-NN	952001621
			PNP	S5N-PA-2-C01-PP	952001051
			NPN	S5N-PA-5-C01-NN	952001511
	LED, Radial optic	2m Cable	PNP	S5N-PA-5-C01-PP	952001061
		M12 Connector	IO-Link	S5N-PA-5-C01-OZ	952002210
			NPN	S5N-PR-2-C01-NN	952001791
			PNP	S5N-PR-2-C01-PP	952001071
	LASER, Axial optic	2m Cable	NPN	S5N-PR-5-C01-NN	952001731
		M12 Connector	PNP	S5N-PR-5-C01-PP	952001081
			NPN	S5N-PL-2-C01-NN	952001881
			PNP	S5N-PL-2-C01-PP	952001381
	LASER, Radial optic	2m Cable	NPN	S5N-PL-5-C01-NN	952001851
		M12 Connector	PNP	S5N-PL-5-C01-PP	952001391
			IO-Link	S5N-PL-5-C01-OZ	952002260
		M12 Connector	NPN	S5N-PH-2-C01-NN	952001991
			PNP	S5N-PH-2-C01-PP	952001981
Short Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PH-5-C01-NN	952002011
		M12 Connector	PNP	S5N-PH-5-C01-PP	952002001
			NPN	S5N-PA-2-C10-NN	952001631
			PNP	S5N-PA-2-C10-PP	952001241
	LED, Radial optic	2m Cable	NPN	S5N-PA-5-C10-NN	952001521
		M12 Connector	PNP	S5N-PA-5-C10-PP	952001251
			NPN	S5N-PR-2-C10-NN	952001801
			PNP	S5N-PR-2-C10-PP	952001491
Medium Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PR-5-C10-NN	952001741
		M12 Connector	PNP	S5N-PR-5-C10-PP	952001481
			NPN	S5N-PA-2-C21-NN	952002171
			PNP	S5N-PA-2-C21-PP	952002161
	LED, Radial optic	2m Cable	NPN	S5N-PA-5-C21-NN	952002191
		M12 Connector	PNP	S5N-PA-5-C21-PP	952002181
			NPN	S5N-PA-2-D00-NN	952001641
			PNP	S5N-PA-2-D00-PP	952001091
Fixed focus	LED, Axial optic	2m Cable	NPN	S5N-PA-5-D00-NN	952001531
		M12 Connector	PNP	S5N-PA-5-D00-PP	952001101
			NPN	S5N-PR-2-D00-NN	952001811
			PNP	S5N-PR-2-D00-PP	952001111
	LED, Radial optic	2m Cable	NPN	S5N-PR-5-D00-NN	952001751
		M12 Connector	PNP	S5N-PR-5-D00-PP	952001121
Fiber optic	LED, Axial optic	2m Cable	NPN	S5N-PA-2-E01-NN	952001651
		M12 Connector	PNP	S5N-PA-2-E01-PP	952001131
			NPN	S5N-PA-5-E01-NN	952001541
			PNP	S5N-PA-5-E01-PP	952001141
Through beam receiver	LED, Axial optic	2m Cable	NPN	S5N-PA-2-F01-NN	952001141
		M12 Connector	PNP	S5N-PA-2-F01-PP	952001151
			NPN	S5N-PA-5-F01-NN	952001551
			PNP	S5N-PA-5-F01-PP	952001161
Through beam emitter	LED, Radial optic	2m Cable	NPN	S5N-PR-2-F01-NN	952001821
		M12 Connector	PNP	S5N-PR-2-F01-PP	952001171
			NPN	S5N-PR-5-F01-NN	952001761
			PNP	S5N-PR-5-F01-PP	952001181
	LASER, Axial optic	2m Cable	NPN	S5N-PL-2-F01-NN	952001891
		M12 Connector	PNP	S5N-PL-2-F01-PP	952001401
			NPN	S5N-PL-5-F01-NN	952001861
			PNP	S5N-PL-5-F01-PP	952001411
	LASER, Radial optic	2m Cable	NPN	S5N-PH-2-F01-NN	952002031
		M12 Connector	PNP	S5N-PH-2-F01-PP	952002021
			NPN	S5N-PH-5-F01-NN	952002051
			PNP	S5N-PH-5-F01-PP	952002041
Through beam emitter	LED, Axial optic	2m Cable	-	S5N-PA-2-G00-XG	952001191
		M12 Connector	-	S5N-PA-5-G00-XG	952001201
	LED, Radial optic	2m Cable	-	S5N-PR-2-G00-XG	952001211
		M12 Connector	-	S5N-PR-5-G00-XG	952001221
	LASER, Axial optic	2m Cable	-	S5N-PL-2-G00-XG	952001421
		M12 Connector	-	S5N-PL-5-G00-XG	952001431
	LASER, Radial optic	2m Cable	-	S5N-PH-2-G00-XG	952002061
		M12 Connector	-	S5N-PH-5-G00-XG	952002071

S5N - STANDARD PLASTIC HOUSING - NO/NC STANDARD OUTPUT & IO-LINK MODELS (S5N-PA...PP/NN/OZ)							
Background suppression	LED, Axial optic	2m Cable	NPN	S5N-PA-2-M03-NN	952001671		
			PNP	S5N-PA-2-M03-PP	952001231		
		M12 Connector	NPN	S5N-PA-5-M03-NN	952001561		
			PNP	S5N-PA-5-M03-PP	952001001		
	LED, Radial optic	M12 Connector	 IO-Link	S5N-PA-5-M03-OZ	952002230		
			PNP	S5N-PS-5-M03-PP	952001931		
		2m Cable	NPN	S5N-PS-5-M03-NN	952001921		
			PNP	S5N-PS-2-M03-PP	952001911		
			NPN	S5N-PS-2-M03-NN	952001901		
			NPN	S5N-PA-2-T01-NN	952001691		
Retroreflective for transparent	LED, Axial optic	2m Cable	PNP	S5N-PA-2-T01-PP	952001261		
			NPN	S5N-PA-5-T01-NN	952001581		
		M12 Connector	PNP	S5N-PA-5-T01-PP	952001271		
			 IO-Link	S5N-PA-5-T01-OZ	952002220		
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-T01-NN	952001831		
			PNP	S5N-PR-2-T01-PP	952001281		
		M12 Connector	NPN	S5N-PR-5-T01-NN	952001771		
			PNP	S5N-PR-5-T01-PP	952001291		
		Luminescence	LED, Axial optic	2m Cable	NPN	S5N-PA-2-U03-NN	952001701
					PNP	S5N-PA-2-U03-PP	952001301
M12 Connector	NPN			S5N-PA-5-U03-NN	952001591		
	PNP			S5N-PA-5-U03-PP	952001311		
Contrast	2m Cable	NPN		S5N-PA-2-W03-NN	952001711		
		PNP		S5N-PA-2-W03-PP	952001321		
	M12 Connector	NPN		S5N-PA-5-W03-NN	952001601		
		PNP		S5N-PA-5-W03-PP	952001331		
		 IO-Link	S5N-PA-5-W03-OZ	952002240			
S5N - STANDARD PLASTIC HOUSING - L/D INPUT MODELS (S5N-PA...PK/NK)							
Retroreflective	LED, Axial optic	2m Cable	NPN	S5N-PA-2-A00-NK	952701072		
			PNP	S5N-PA-2-A00-PK	952701002		
		M12 Connector	NPN	S5N-PA-5-A00-NK	952701332		
			PNP	S5N-PA-5-A00-PK	952701262		
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-A00-NK	952701202		
			PNP	S5N-PR-2-A00-PK	952701132		
Polarized retroreflective	LED, Axial optic	2m Cable	NPN	S5N-PA-2-B01-NK	952701082		
			PNP	S5N-PA-2-B01-PK	952701012		
		M12 Connector	NPN	S5N-PA-5-B01-NK	952701342		
			PNP	S5N-PA-5-B01-PK	952701272		
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-B01-NK	952701212		
			PNP	S5N-PR-2-B01-PK	952701142		
		M12 Connector	PNP	S5N-PR-5-B01-PK	952701402		
			Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PA-2-C01-NK
	PNP	S5N-PA-2-C01-PK				952701022	
	M12 Connector	NPN			S5N-PA-5-C01-NK	952701352	
PNP		S5N-PA-5-C01-PK			952701282		
LED, Radial optic	2m Cable	NPN		S5N-PR-2-C01-NK	952701222		
		PNP		S5N-PR-2-C01-PK	952701152		
		M12 Connector	PNP	S5N-PR-5-C01-PK	952701412		
Short Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PA-2-C10-NK	952701102		
			PNP	S5N-PA-2-C10-PK	952701032		
		M12 Connector	NPN	S5N-PA-5-C10-NK	952701362		
			PNP	S5N-PA-5-C10-PK	952701292		
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-C10-NK	952701232		
			PNP	S5N-PR-2-C10-PK	952701162		
		M12 Connector	PNP	S5N-PR-5-C10-PK	952701422		
Through beam receiver	LED, Axial optic	2m Cable	NPN	S5N-PA-2-F00-NK	952701122		
			NPN	S5N-PA-5-F00-NK	952701382		
	M12 Connector	PNP	S5N-PA-5-F00-PK	952701312			
			PNP	S5N-PR-5-F00-PK	952701442		
Through beam emitter	LED, Axial optic	2m Cable	-	S5N-PA-2-G00-XG	952001191		
		M12 Connector	-	S5N-PA-5-G00-XG	952001201		
	LED, Radial optic	2m Cable	-	S5N-PR-2-G00-XG	952001211		
		M12 Connector	-	S5N-PR-5-G00-XG	952001221		
	LASER, Axial optic	2m Cable	-	S5N-PL-2-G00-XG	952001421		
		M12 Connector	-	S5N-PL-5-G00-XG	952001431		
	LASER, Radial optic	2m Cable	-	S5N-PH-2-G00-XG	952002061		
		M12 Connector	-	S5N-PH-5-G00-XG	952002071		
S5N - SHORT PLASTIC HOUSING - L/D INPUT MODELS (S5N-SA...)							
Polarized retroreflective	LED, Axial optic	2m Cable	NPN	S5N-SA-2-B00-NK	952301062		
		PNP	S5N-SA-2-B00-PK	952301012			
Diffuse proximity		Pig Tail M12	PNP	S5N-SA-3-B00-PK	952301122		
		2m Cable	NPN	S5N-SA-2-C00-NK	952301072		
			PNP	S5N-SA-2-C00-PK	952301022		
		Short Diffuse proximity Fixed Focus	Pig Tail M12	PNP	S5N-SA-3-C00-PK	952301132	
PNP				S5N-SA-3-C10-PK	952301142		
Through beam receiver			PNP	S5N-SA-3-D50-PK	952301541		
			PNP	S5N-SA-3-F00-PK	952301152		
Through beam emitter		-	S5N-SA-3-G00-XG	952301212			
Background suppression		M12 Connector	NPN	S5N-SA-5-M01-NK	952301351		
			PNP	S5N-SA-5-M01-PK	952301271		
Retroreflective for transparent			PNP	S5N-SA-5-T01-PK	952301241		
			NPN	S5N-SA-5-T01-NK	952301321		

S5N - METAL HOUSING - NO/NC STANDARD OUTPUT & IO-LINK MODELS (S5N-MA...PP/NN/OZ)

Retroreflective	LED, Axial optic	2m Cable	NPN	S5N-MA-2-A00-NN	952022091
		M12 Connector	PNP	S5N-MA-2-A00-PP	952022081
			NPN	S5N-MA-5-A00-NN	952022111
			PNP	S5N-MA-5-A00-PP	952022101
Polarized retroreflective	LED, Axial optic	2m Cable	NPN	S5N-MA-2-B01-NN	952021501
		M12 Connector	PNP	S5N-MA-2-B01-PP	952021001
			NPN	S5N-MA-5-B01-NN	952021661
			PNP	S5N-MA-5-B01-PP	952021201
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-B01-NN	952021601
		M12 Connector	PNP	S5N-MR-2-B01-PP	952021141
			NPN	S5N-MR-5-B01-NN	952021761
			PNP	S5N-MR-5-B01-PP	952021341
	LASER, Axial optic	2m Cable	NPN	S5N-ML-2-B01-NN	952021821
		M12 Connector	PNP	S5N-ML-2-B01-PP	952021401
			NPN	S5N-ML-5-B01-NN	952021851
			PNP	S5N-ML-5-B01-PP	952021441
	LASER, Radial optic	2m Cable	NPN	S5N-MH-2-B01-NN	952021951
		M12 Connector	PNP	S5N-MH-2-B01-PP	952021941
			NPN	S5N-MH-5-B01-NN	952021971
			PNP	S5N-MH-5-B01-PP	952021961
Long Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-MA-2-C01-NN	952021511
		M12 Connector	PNP	S5N-MA-2-C01-PP	952021011
			NPN	S5N-MA-5-C01-NN	952021671
			PNP	S5N-MA-5-C01-PP	952021211
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-C01-NN	952021611
		M12 Connector	PNP	S5N-MR-2-C01-PP	952021151
			NPN	S5N-MR-5-C01-NN	952021771
			PNP	S5N-MR-5-C01-PP	952021351
	LASER, Axial optic	2m Cable	NPN	S5N-ML-2-C01-NN	952021831
		M12 Connector	PNP	S5N-ML-2-C01-PP	952021411
			NPN	S5N-ML-5-C01-NN	952021861
			PNP	S5N-ML-5-C01-PP	952021451
	LASER, Radial optic	2m Cable	NPN	S5N-MH-2-C01-NN	952021991
		M12 Connector	PNP	S5N-MH-2-C01-PP	952021981
			NPN	S5N-MH-5-C01-NN	952022011
			PNP	S5N-MH-5-C01-PP	952022001
Short Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-MA-2-C10-NN	952021521
		M12 Connector	PNP	S5N-MA-2-C10-PP	952021021
			NPN	S5N-MA-5-C10-NN	952021681
			PNP	S5N-MA-5-C10-PP	952021221
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-C10-NN	952021621
		M12 Connector	PNP	S5N-MR-2-C10-PP	952021491
			NPN	S5N-MR-5-C10-NN	952021781
			PNP	S5N-MR-5-C10-PP	952021481
Medium Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-MA-2-C21-NN	952022131
		M12 Connector	PNP	S5N-MA-2-C21-PP	952022121
			NPN	S5N-MA-5-C21-NN	952022151
			PNP	S5N-MA-5-C21-PP	952022141
Fixed focus	LED, Axial optic	2m Cable	NPN	S5N-MA-2-D00-NN	952021531
		M12 Connector	PNP	S5N-MA-2-D00-PP	952021031
			NPN	S5N-MA-5-D00-NN	952021691
			PNP	S5N-MA-5-D00-PP	952021231
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-D00-NN	952021631
		M12 Connector	PNP	S5N-MR-2-D00-PP	952021161
			NPN	S5N-MR-5-D00-NN	952021791
			PNP	S5N-MR-5-D00-PP	952021361
Fiber optic	LED, Axial optic	2m Cable	NPN	S5N-MA-2-E01-NN	952021881
		M12 Connector	PNP	S5N-MA-2-E01-PP	952021041
			NPN	S5N-MA-5-E01-NN	952021891
			PNP	S5N-MA-5-E01-PP	952021241
		2m Cable	NPN	S5N-MA-2-F01-NN	952021541
		M12 Connector	PNP	S5N-MA-2-F01-PP	952021051
			NPN	S5N-MA-5-F01-NN	952021701
			PNP	S5N-MA-5-F01-PP	952021251
Through beam receiver	LED, Radial optic	2m Cable	NPN	S5N-MR-2-F01-NN	952021641
		M12 Connector	PNP	S5N-MR-2-F01-PP	952021171
			NPN	S5N-MR-5-F01-NN	952021801
			PNP	S5N-MR-5-F01-PP	952021371
	LASER, Axial optic	2m Cable	NPN	S5N-ML-2-F01-NN	952021841
		M12 Connector	PNP	S5N-ML-2-F01-PP	952021421
			NPN	S5N-ML-5-F01-NN	952021871
			PNP	S5N-ML-5-F01-PP	952021461
	LASER, Radial optic	2m Cable	NPN	S5N-MH-2-F01-NN	952022031
		M12 Connector	PNP	S5N-MH-2-F01-PP	952022021
			NPN	S5N-MH-5-F01-NN	952022051
			PNP	S5N-MH-5-F01-PP	952022041

S5N - METAL HOUSING - NO/NC STANDARD OUTPUT & IO-LINK MODELS (S5N-MA...PP/NN/OZ)

Through beam emitter	LED, Axial optic	2m Cable	-	S5N-MA-2-G00-XG	952021061
		M12 Connector	-	S5N-MA-5-G00-XG	952021261
	LED, Radial optic	2m Cable	-	S5N-MR-2-G00-XG	952021181
		M12 Connector	-	S5N-MR-5-G00-XG	952021381
	LASER, Axial optic	2m Cable	-	S5N-ML-2-G00-XG	952021431
		M12 Connector		S5N-ML-5-G00-XG	952021471
	LASER, Radial optic	2m Cable	-	S5N-MH-2-G00-XG	952022061
		M12 Connector	-	S5N-MH-5-G00-XG	952022071
Background suppression	LED, Axial optic	2m Cable	NPN	S5N-MA-2-M03-NN	952021551
			PNP	S5N-MA-2-M03-PP	952021071
Background suppression	LED, Axial optic	M12 Connector	PNP	S5N-MA-5-M03-PP	952021271
			 IO-Link	S5N-MA-5-M03-OZ	952022170
	LED, Radial optic		PNP	S5N-MS-5-M03-PP	952021931
Retroreflective for transparent	LED, Axial optic	2m Cable	PNP	S5N-MS-2-M03-PP	952021911
			NPN	S5N-MA-2-T01-NN	952021571
		M12 Connector	PNP	S5N-MA-2-T01-PP	952021091
			NPN	S5N-MA-5-T01-NN	952021731
	LED, Radial optic	2m Cable	PNP	S5N-MA-5-T01-PP	952021291
			NPN	S5N-MR-2-T01-NN	952021651
		M12 Connector	PNP	S5N-MR-2-T01-PP	952021191
			NPN	S5N-MR-5-T01-NN	952021811
			PNP	S5N-MR-5-T01-PP	952021391
			M12 Connector	PNP	S5N-MA-5-U03-PP
Luminescence	LED, Axial optic	2m Cable	PNP	S5N-MA-2-W03-PP	952021111
Contrast		M12 Connector	NPN	S5N-MA-5-W03-NN	952021751
			PNP	S5N-MA-5-W03-PP	952021311

S5N - METAL HOUSING - L/D INPUT MODELS MODELS (S5N-MA...PK/NK)

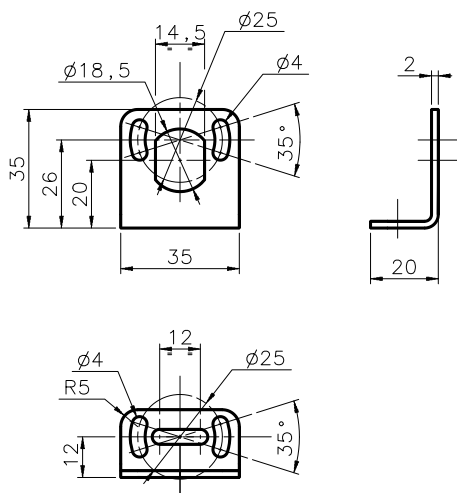
Retroreflective	LED, Axial optic	M12 Connector	NPN	S5N-MA-5-A00-NK	952701802	
Polarized retroreflective			PNP	S5N-MA-5-A00-PK	952701532	
			NPN	S5N-MA-5-B01-NK	952701812	
			PNP	S5N-MA-5-B01-PK	952701762	
		Diffuse proximity	2m Cable	NPN	S5N-MA-2-C01-NK	952701622
PNP				S5N-MA-2-C01-PK	952701562	
M12 Connector			NPN	S5N-MA-5-C01-NK	952701822	
			PNP	S5N-MA-5-C01-PK	952701772	
2m Cable			NPN	S5N-MA-2-C10-NK	952701632	
			PNP	S5N-MA-2-C10-PK	952701572	
Through beam receiver			M12 Connector	NPN	S5N-MA-5-C10-NK	952701832
				PNP	S5N-MA-5-C10-PK	952701522
		NPN		S5N-MA-5-F00-NK	952701842	
		PNP		S5N-MA-5-F00-PK	952701782	
Through beam emitter	LED, Axial optic	2m Cable	—	S5N-MA-2-G00-XG	952021061	
		M12 Connector	—	S5N-MA-5-G00-XG	952021261	
	LED, Radial optic	2m Cable	—	S5N-MR-2-G00-XG	952021181	
		M12 Connector	—	S5N-MR-5-G00-XG	952021381	
	LED, Axial optic	2m Cable	—	S5N-ML-2-G00-XG	952021431	
		M12 Connector		S5N-ML-5-G00-XG	952021471	
	LED, Radial optic	2m Cable	—	S5N-MH-2-G00-XG	952022061	
		M12 Connector	—	S5N-MH-5-G00-XG	952022071	

S5N - INOX HOUSING - L/D INPUT MODELS MODELS (S5N-NA...)

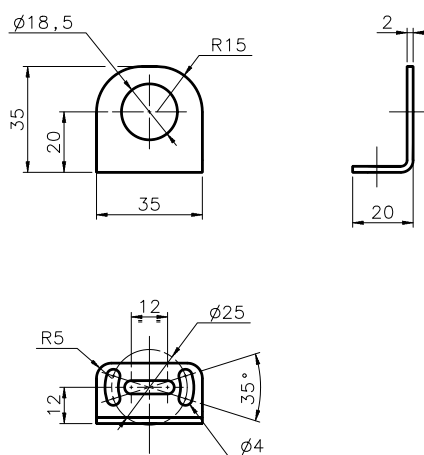
Polarized retroreflective	LED, Axial optic	M12 Connector	NPN	S5N-NA-5-B01-NK	952301461
Diffuse proximity Inox			PNP	S5N-NA-5-B01-PK	952301381
			NPN	S5N-NA-5-C11-NK	952301481
Through beam receiver Inox			PNP	S5N-NA-5-C11-PK	952301401
			NPN	S5N-NA-5-F01-NK	952301511
Through beam emitter inox			PNP	S5N-NA-5-F01-PK	952301431
			-	S5N-NA-5-G01-XG	952301441
Background suppression inox			NPN	S5N-NA-5-M01-NK	952301501
			PNP	S5N-NA-5-M01-PK	952301421
Retroreflective for transparent inox			NPN	S5N-NA-5-T01-NK	952301471
			PNP	S5N-NA-5-T01-PK	952301391

ACCESSORIES

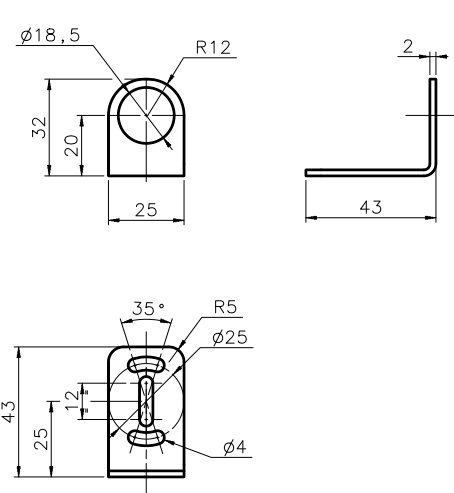
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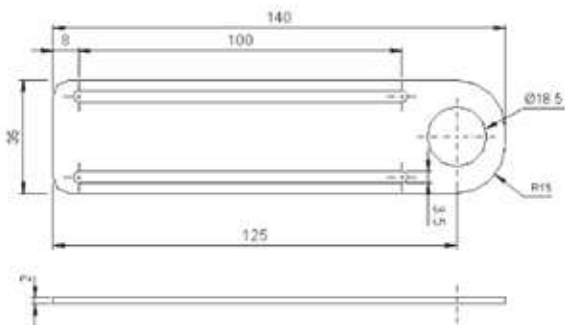
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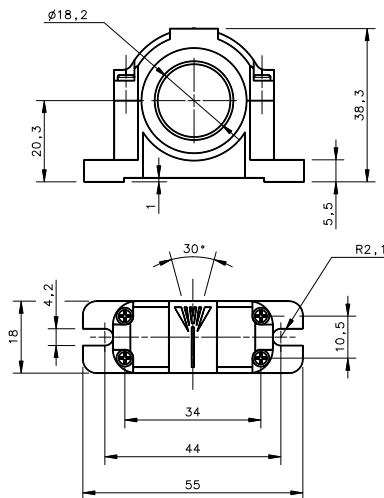
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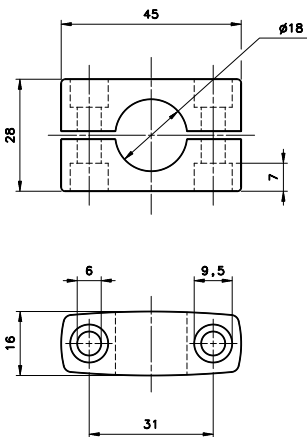
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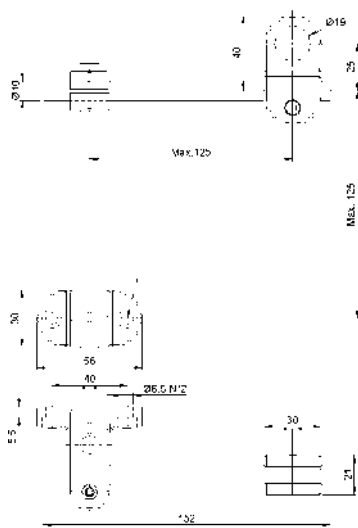
SWING-18



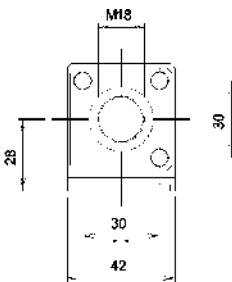
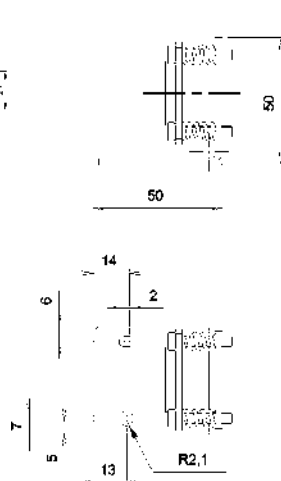
SP-40



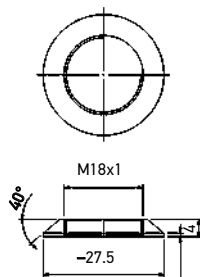
JOINT 18



MICRO 18



M18 FLARED PLASTIC NUT



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	895000006
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)	G602000008
MEK -PROOF	front protection (only for metal models)	G5000001

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 M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A1-02-G-03	95A251380
		5 m	CS-A1-02-G-05	95A251270
		7 m	CS-A1-02-G-07	95A251280
		10 m	CS-A1-02-G-10	95A251390
	4-pole, P.U.R.	2 m	CS-A1-02-R-02	95A251540
		5 m	CS-A1-02-R-05	95A251560
Radial M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
		7 m	CS-A2-02-G-07	95A251245
		10 m	CS-A2-02-G-10	95A251260
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
		5 m	CS-A2-02-R-05	95A251570
Radial M12 Connector with LED (for PNP N.O. sensors)	4-pole, grey, P.V.C.	3 m	CS-A2-12-G-03	95A251400
		5 m	CS-A2-12-G-05	95A251350
		10 m	CS-A2-12-G-10	95A251370
Axial M12 Connector	4-pole, shielded, black, P.V.C.	3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
		10 m	CV-A1-22-B-10	95ACC1500
		15 m	CV-A1-22-B-15	95ACC2070
		25 m	CV-A1-22-B-25	95ACC2090
Radial M12 Connector	4-pole, shielded, black, P.V.C.	3 m	CV-A2-22-B-03	95ACC1540
		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
Axial M12 Connector	4-pole, U.L., black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
		10 m	CS-A1-02-U-10	95ASE1140
		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

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