MEDITECNA
Instrumentación | Proyectos | Servicios

S5N

DATALOGIC



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

(*) Stainless steel models. ATEX II 3DG

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 amm (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

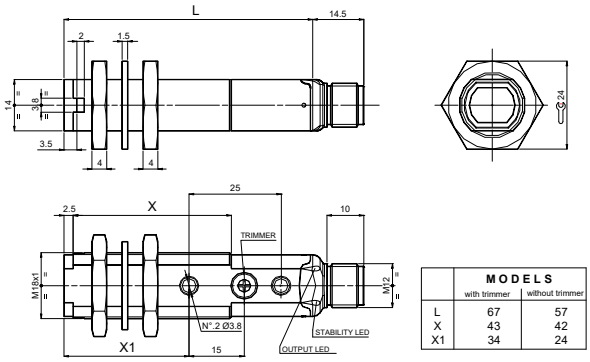
Power supply	10 ... 30 Vdc (limit values all models)
Ripple	2 Vpp max. (all models)
Consumption (output current excluded)	35 mA max. (all models)
Light emission	red LED 630 nm (mod. S5N...D00/E01, S5N-PA/MA...M03) red LED 660 nm (mod. S5N...B01...PP/NN/PK/NK; S5N...T01...PP/NN) - (mod. S5N-SA/NA...B/D/T/M) 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 sensitivity 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

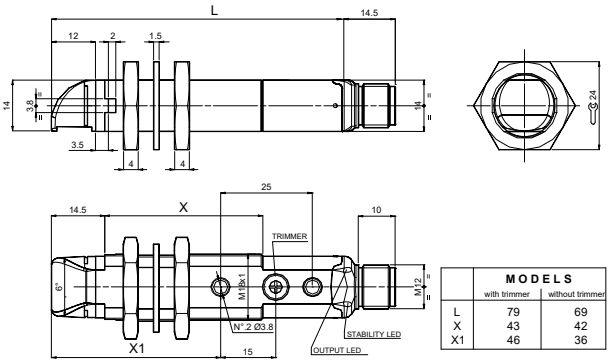
PLASTIC

AXIAL VERSION



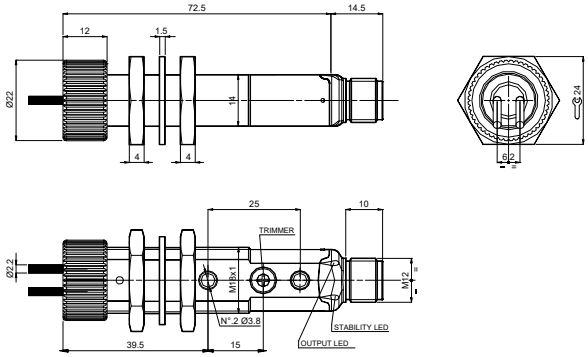
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	with trimmer	without trimmer
L	67	57
X	43	42
X1	34	24

RADIAL VERSION



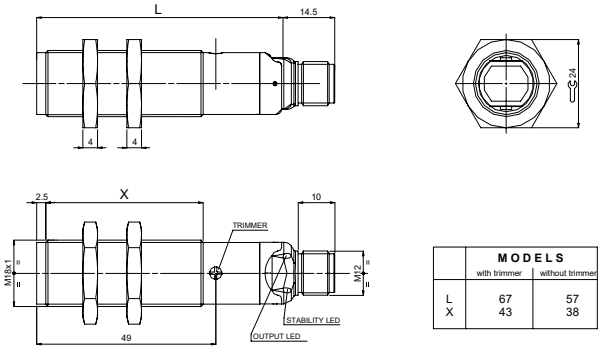
	MODELS	
	with trimmer	without trimmer
L	79	69
X	43	42
X1	46	36

FIBRE OPTIC VERSION



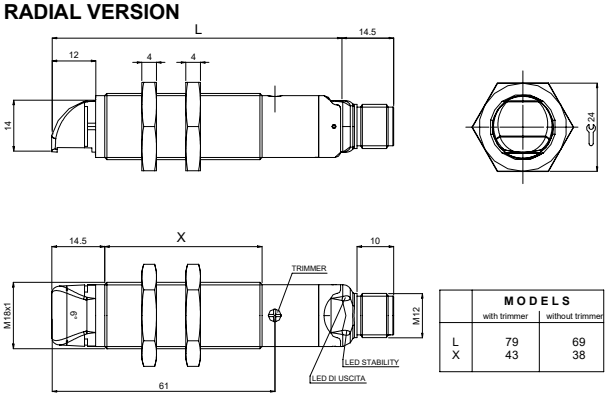
METAL

AXIAL VERSION



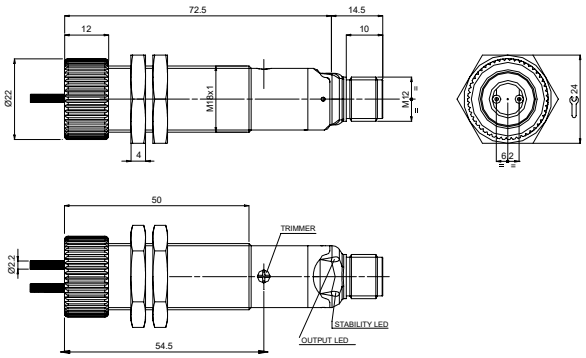
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	with trimmer	without trimmer
L	67	57
X	43	38

RADIAL VERSION



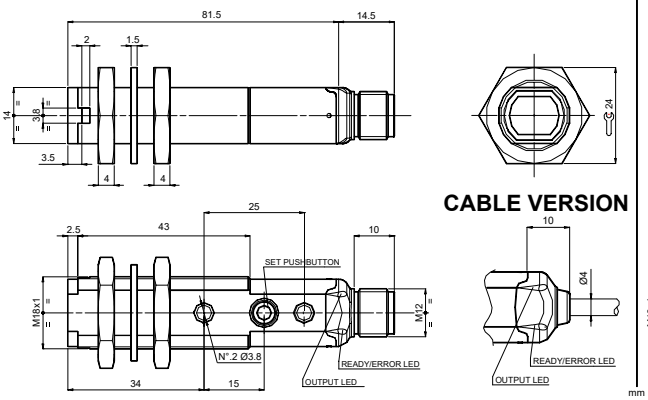
	MODELS	
	with trimmer	without trimmer
L	79	69
X	43	38

FIBRE OPTIC VERSION

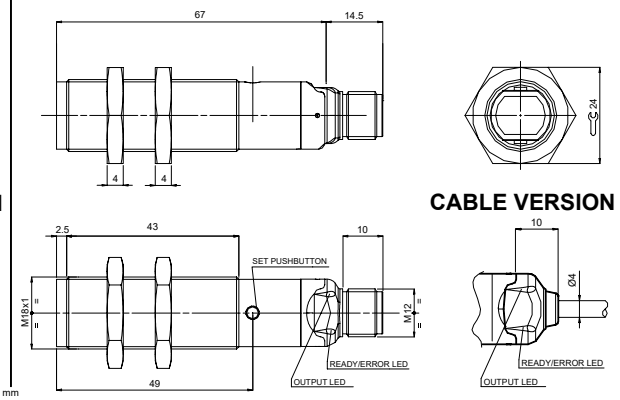


BACKGROUND SUPPRESSION AXIAL VERSION

PLASTIC



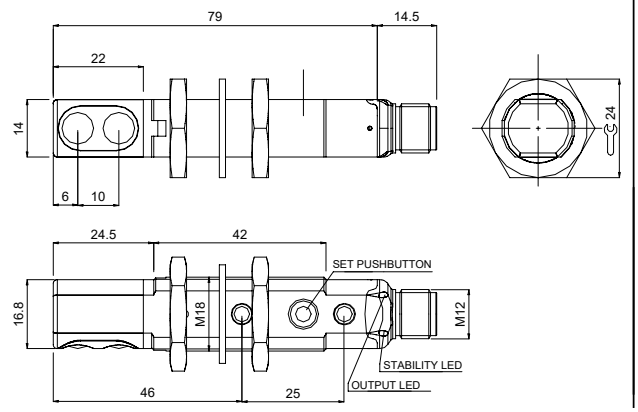
METAL



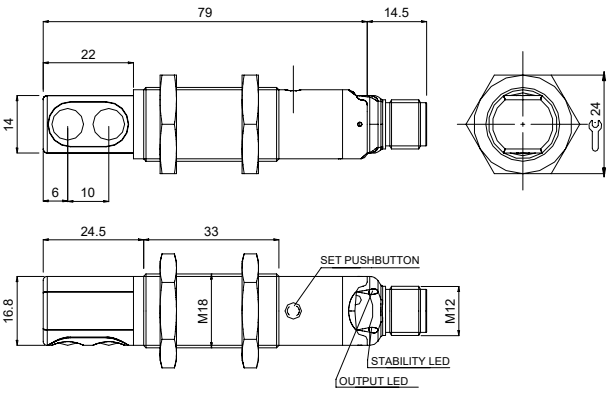
mm

BACKGROUND SUPPRESSION RADIAL VERSION

PLASTIC

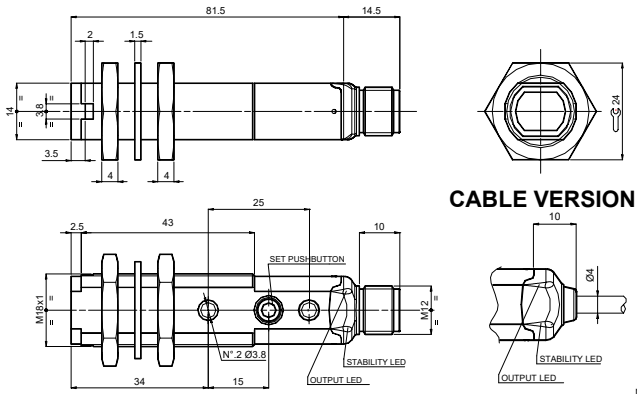


METAL

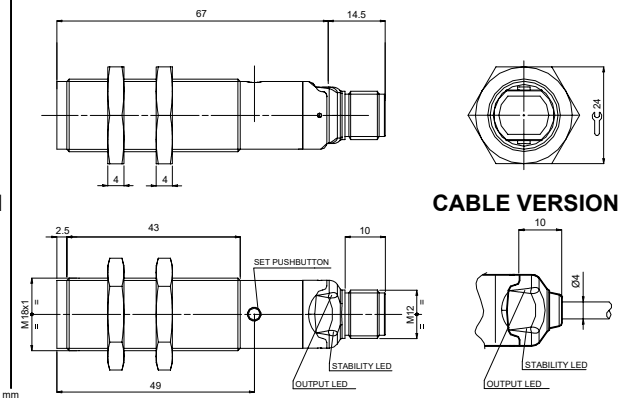


LUMINESCENCE AND CONTRAST

PLASTIC



METAL

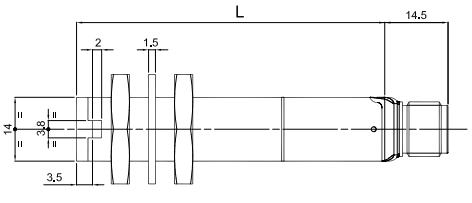


mm

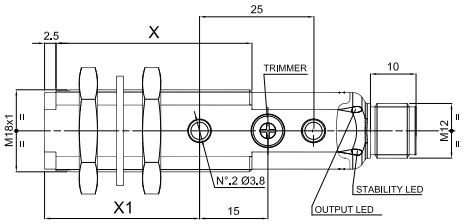
DIMENSIONS

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

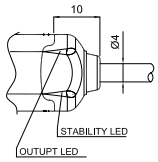
AXIAL VERSION



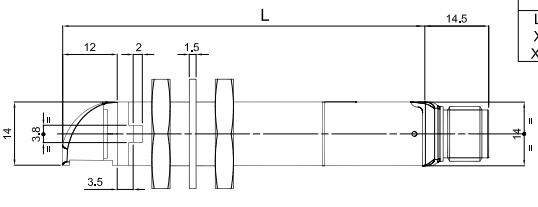
	MODELS	
	with trimmer	without trimmer
L	67	57
X	43	42
X1	34	24



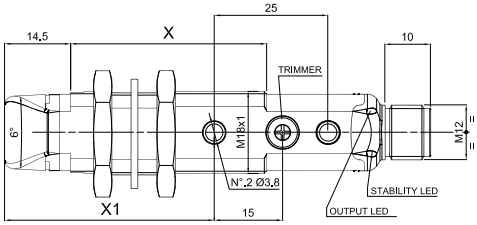
CABLE VERS



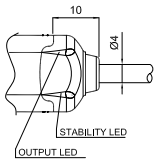
RADIAL VERSION



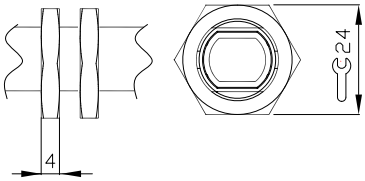
	MODELS	
	with trimmer	without trimmer
L	79	69
X	43	42
X1	46	36



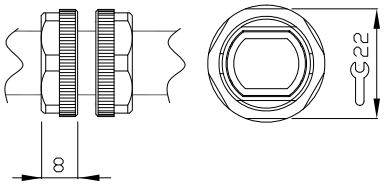
CABLE VERS.



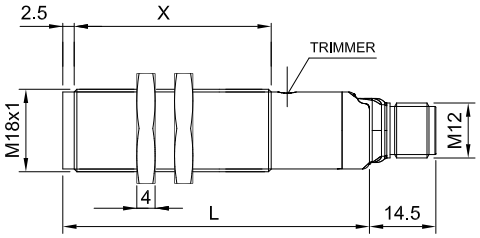
CH.24 PLASTIC NUTS

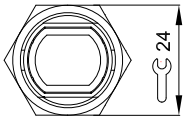


CH.22 PLASTIC NUTS



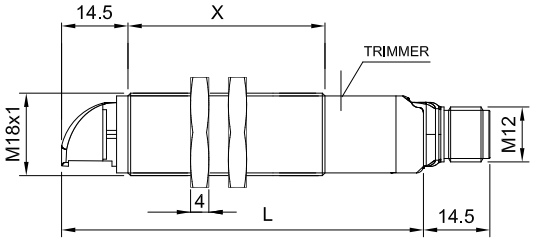
AXIAL VERSION

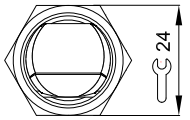




	MODELS	
	B01/C01/F00	A00/C10/G00
L	67	57
X	43	38

RADIAL VERSION

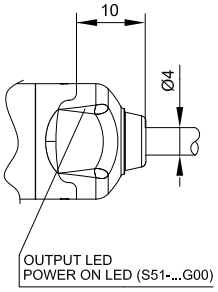




	MODELS	
	B01/C01/F00	A00/C10/G00
L	79	69
X	43	38

mm

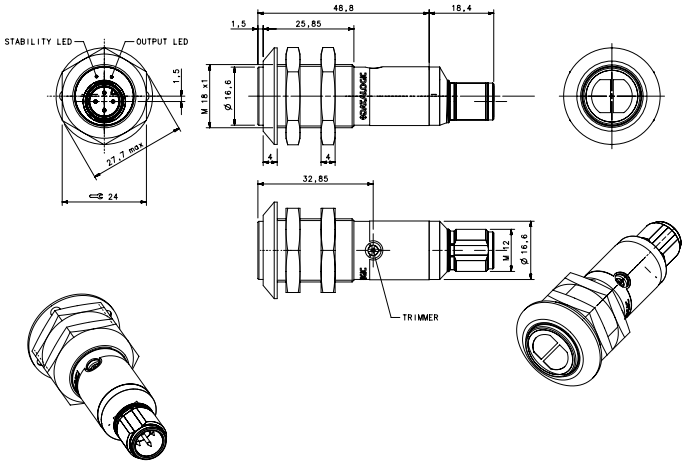
CABLE VERSION



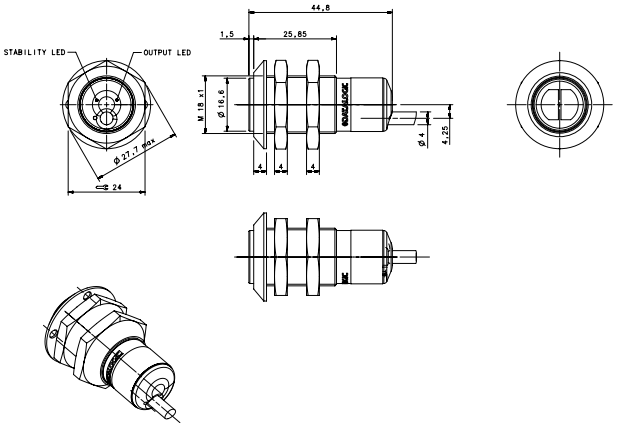
S5N-SA MODELS

PLASTIC

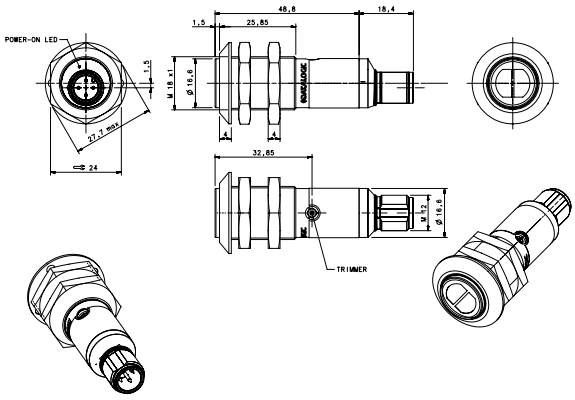
M12 connector version



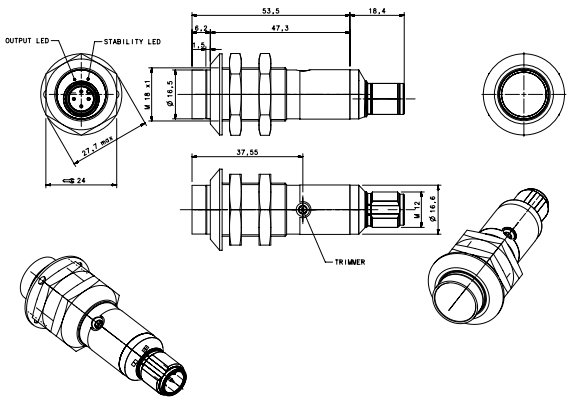
Cable version



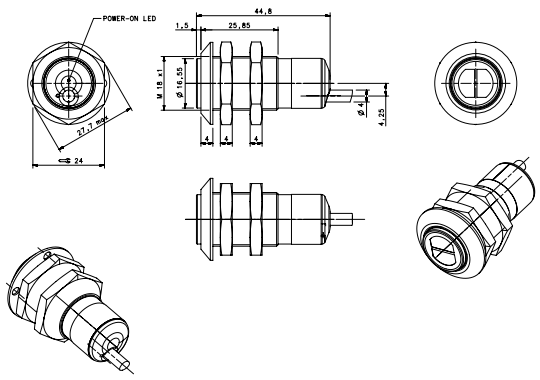
Through beam emitter - M12 connector version



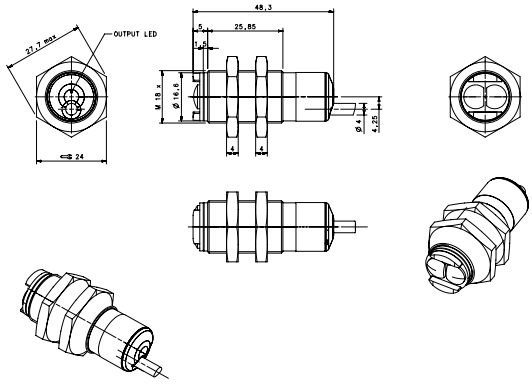
Background suppression - M12 connector version



Through beam emitter - cable version



Diffuse proximity - cable version

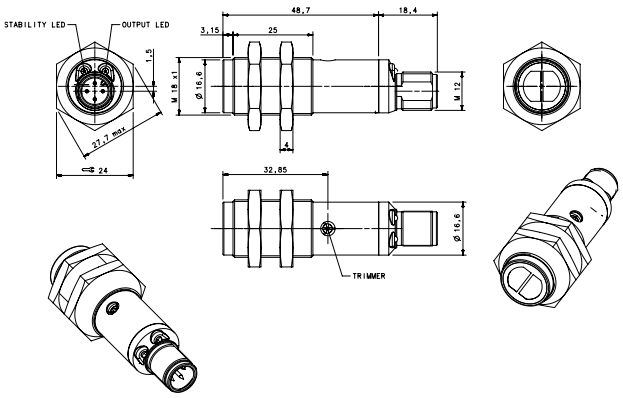


DIMENSIONS

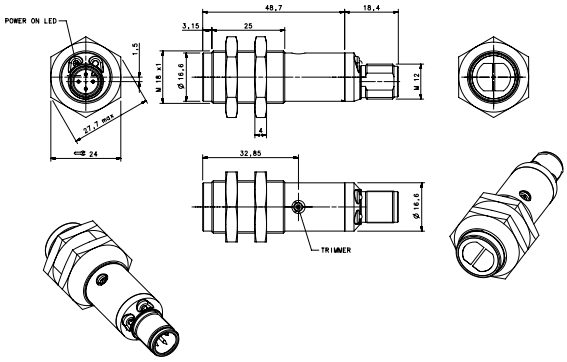
S5N-NA MODELS

STAINLESS STEEL

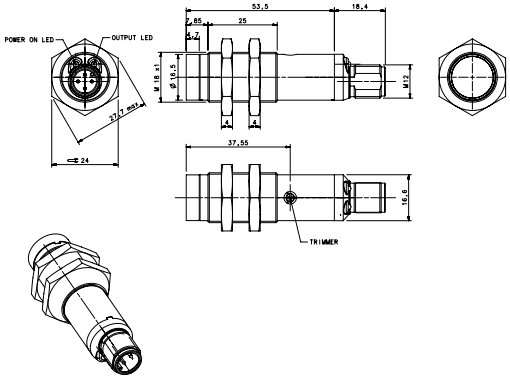
M12 connector version



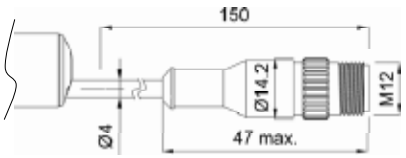
Through beam emitter - M12 connector version



Background suppression - M12 connector version



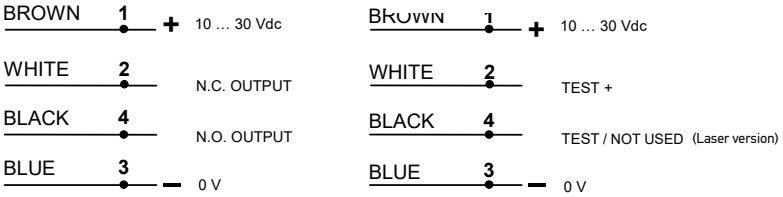
Pig-tail version



CONNECTIONS

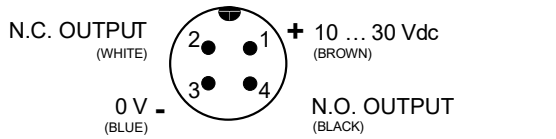
S5N...PP/NN MODELS

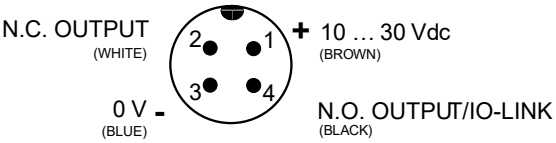
CABLE



Through beam emitter

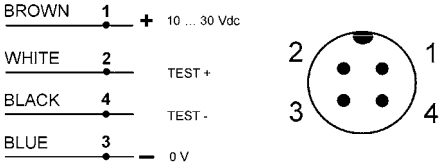
M12 CONNECTOR



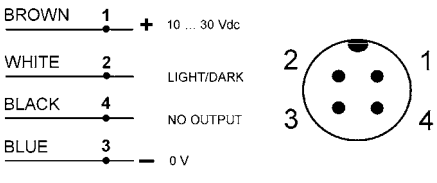


S5N-Px/Mx...PK/NK MODELS

G00 MODEL



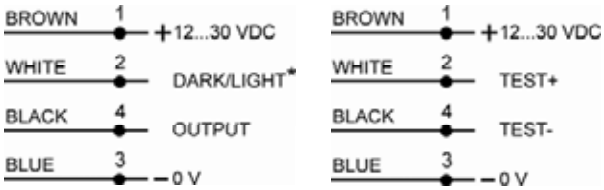
A00/B01/C01/C10/C20/F00 MODELS



S5N...NA/SA MODELS

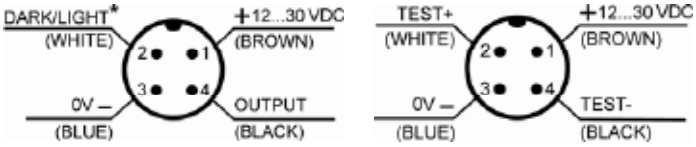
Cable and Pig-tail

Through beam emitter



M12 connector

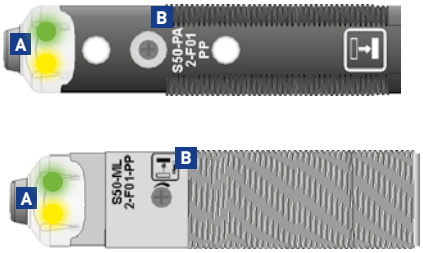
Through beam emitter



INDICATORS AND SETTINGS

S5N...PP/NN MODELS

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

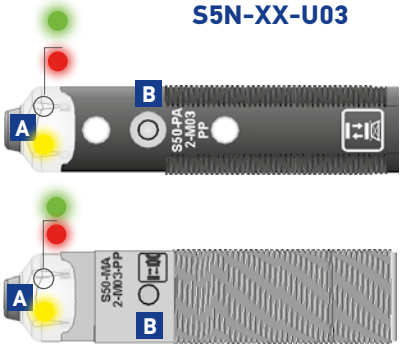


A OUTPUT status LED Yellow
STABILITY LED Green (Only Receiver)
POWER ON LED Green (Only Emitter)

B Adjustment trimmer (receiver)

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

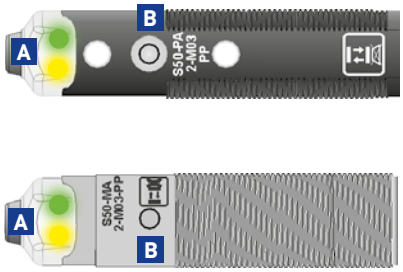
S5N-XX-U03



A OUTPUT status LED Yellow
READY LED Green
LED Red error

B Teach-in push-button

S5N-XX-M03/W03

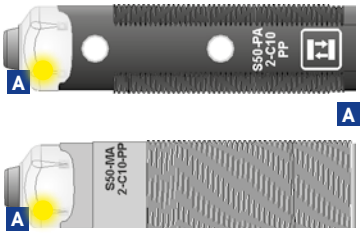


A OUTPUT status LED Yellow
READY LED Green

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.

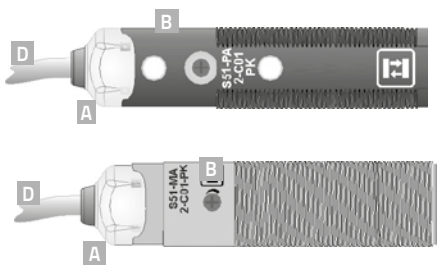
S5N-XX-A00/C10/D00



A00/C10
A OUTPUT status LED Yellow

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)

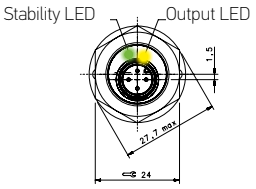
C M12 connector

D Cable connection

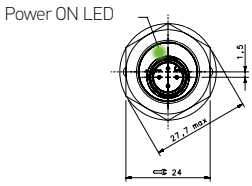
Trimmer for sensitivity adjustment.
Rotate in a clockwise direction to increase the operating distance.

S5N...SA/NA MODELS

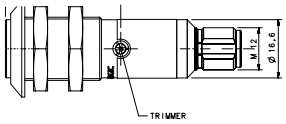
Plastic/metal case with trimmer, M12 connector



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



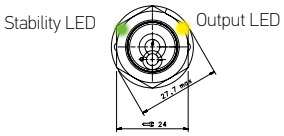
G01



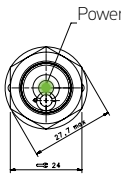




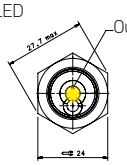
Plastic, no trimmer, Cable, Pig Tail



A00, B00, C10, C00, T01, D50



G00



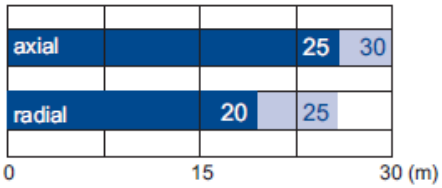
F00



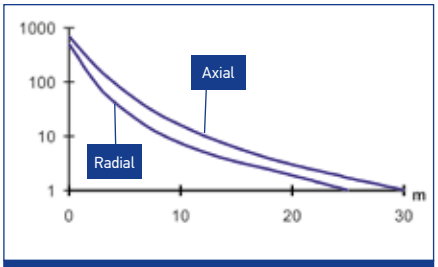
DETECTION DIAGRAMS

S5N...PP/NN MODELS

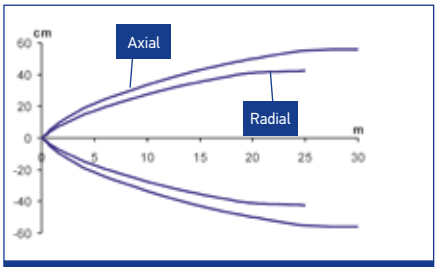
THROUGH BEAM (G/F) INFRARED EMISSION



Recommended operating distance
Maximum operating distance

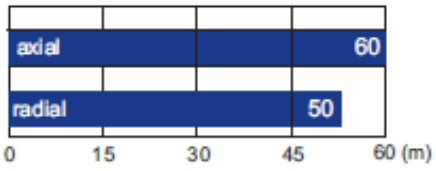


Excess gain

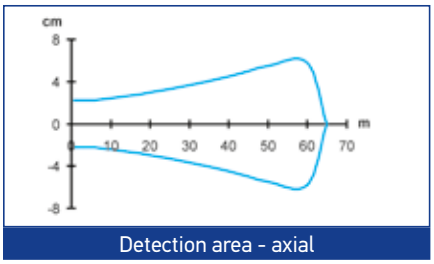


Detection area

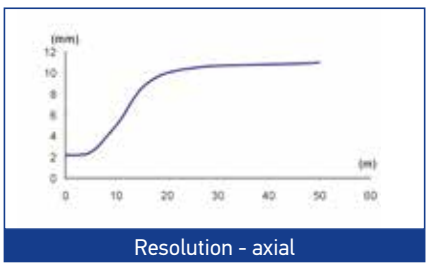
THROUGH BEAM (G/F) LASER RED EMISSION



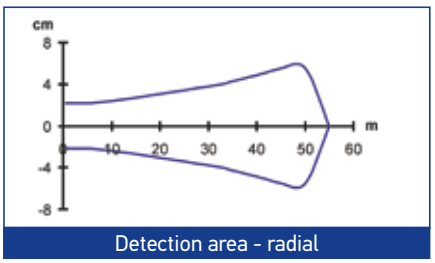
Operating distance



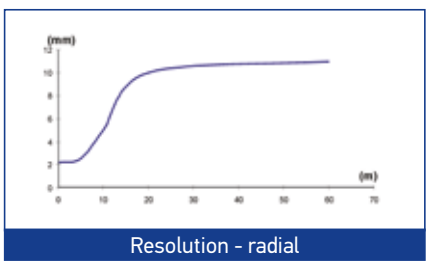
Detection area - axial



Resolution - axial



Detection area - radial

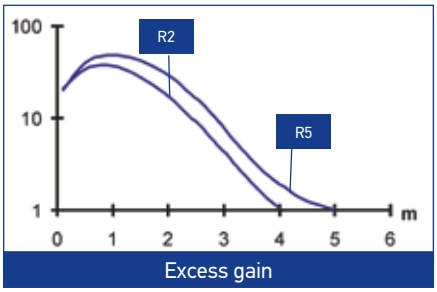


Resolution - radial

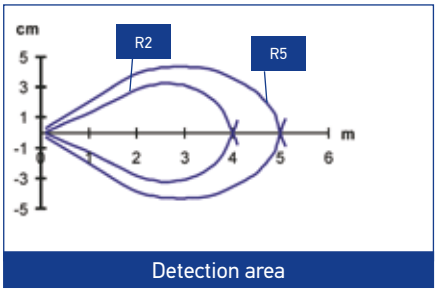
RETROREFLECTIVE (A) INFRARED EMISSION



Operating distance

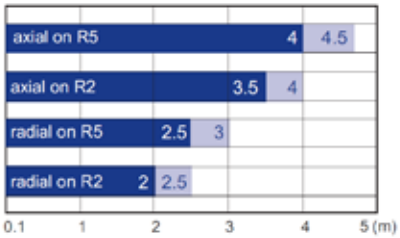


Excess gain



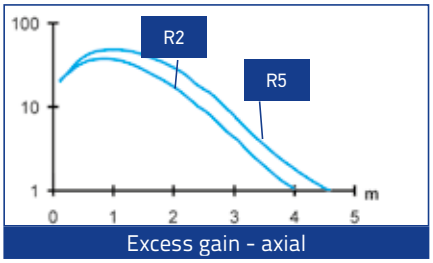
Detection area

RETROREFLECTIVE POLARIZED (B) RED EMISSION

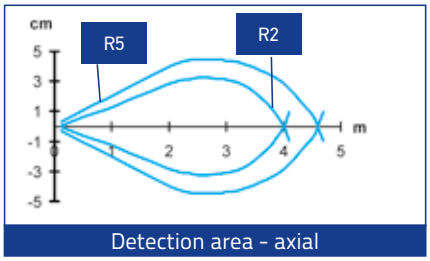


Recommended operating distance
Maximum operating distance

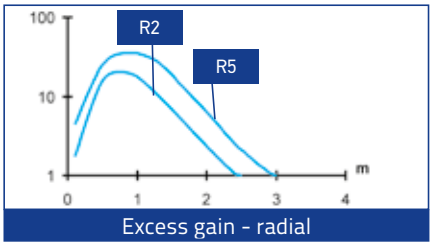
High efficiency reflectors can be used to obtain larger operating distances.
Refer to **Reflectors** (A.01).



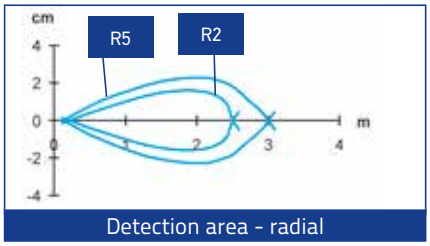
Excess gain - axial



Detection area - axial

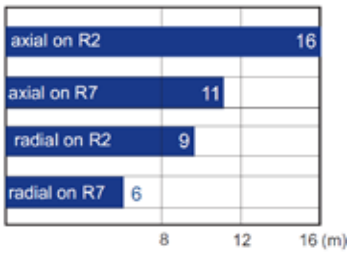


Excess gain - radial



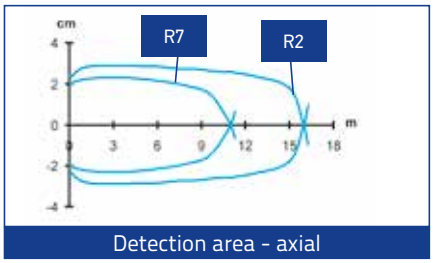
Detection area - radial

RETROREFLECTIVE POLARIZED (B) LASER RED EMISSION

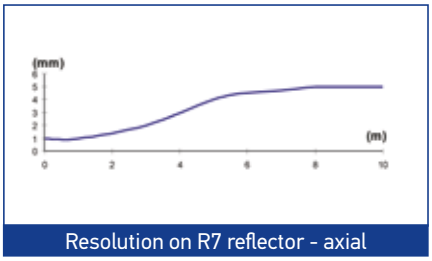


Operating distance

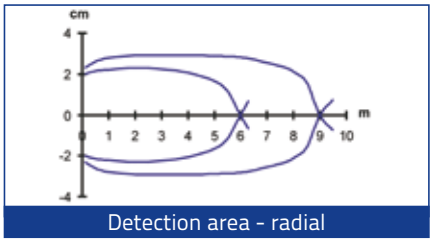
High efficiency reflectors can be used to obtain larger operating distances.
Refer to **Reflectors** (A.01).



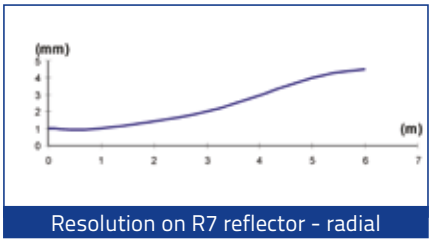
Detection area - axial



Resolution on R7 reflector - axial

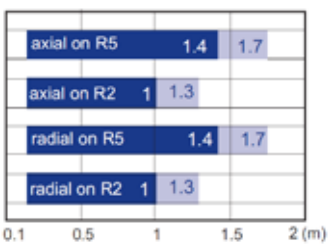


Detection area - radial

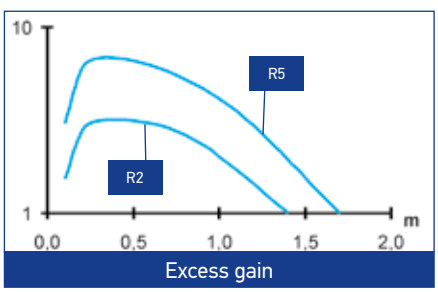


Resolution on R7 reflector - radial

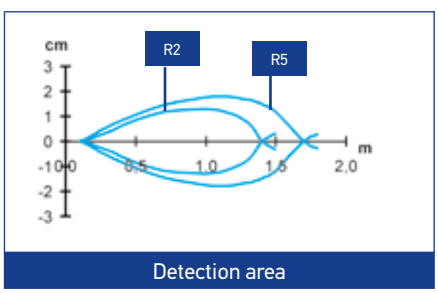
RETROREFLECTIVE TRANSPARENT (T) RED EMISSION



Recommended operating distance
Maximum operating distance



Excess gain



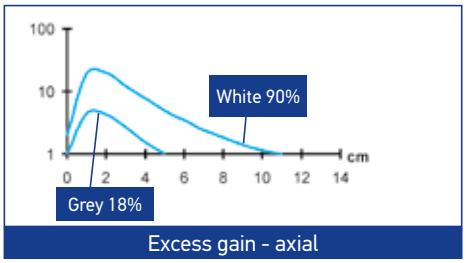
Detection area

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

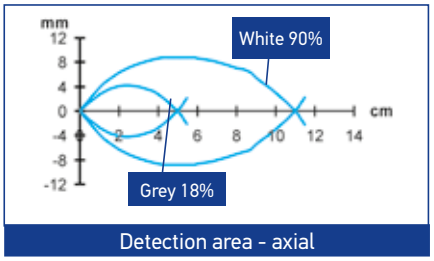
ENERGETIC DIFFUSED (C) SHORT INFRARED EMISSION



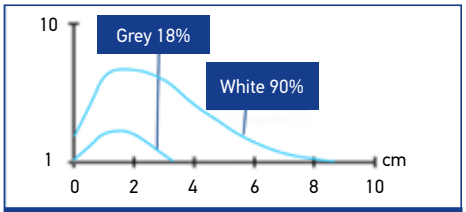
Recommended operating distance
Maximum operating distance



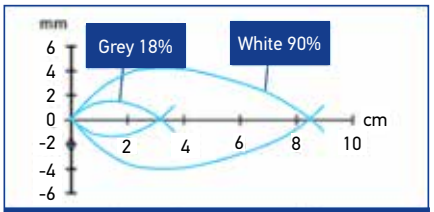
Excess gain - axial



Detection area - axial

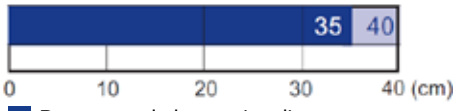


Excess gain - radial

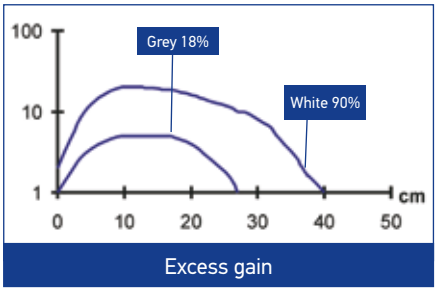


Detection area - radial

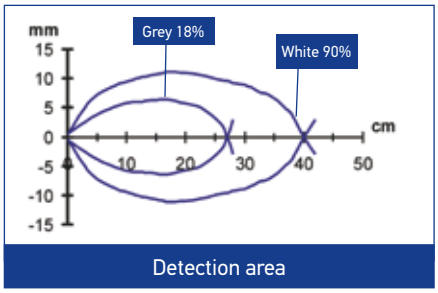
ENERGETIC DIFFUSED (C) MID INFRARED EMISSION



Recommended operating distance
Maximum operating distance

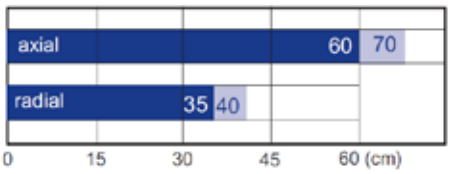


Excess gain

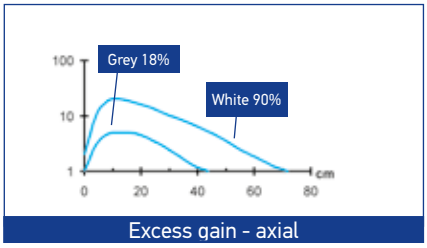


Detection area

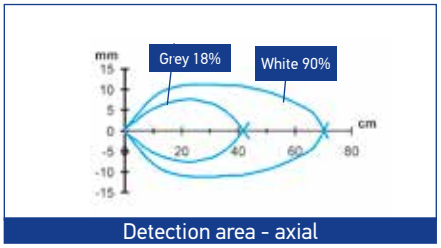
ENERGETIC DIFFUSED (C) LONG INFRARED EMISSION



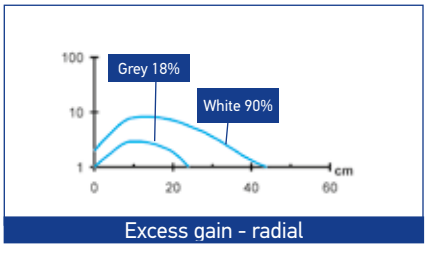
Recommended operating distance
Maximum operating distance



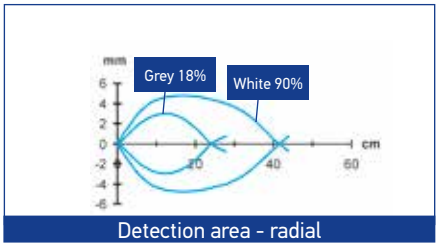
Excess gain - axial



Detection area - axial

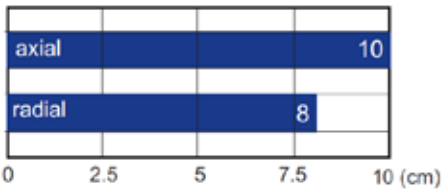


Excess gain - radial

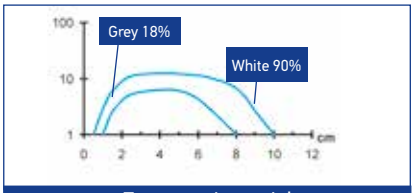


Detection area - radial

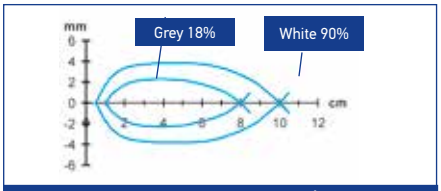
FIXED FOCUS (D) RED EMISSION



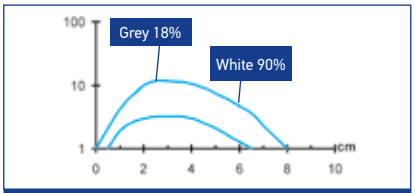
Operating distance



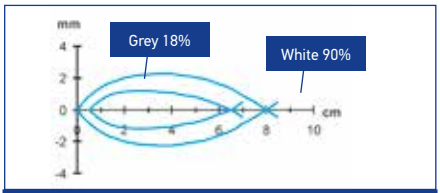
Excess gain - axial



Detection area - axial



Excess gain - radial

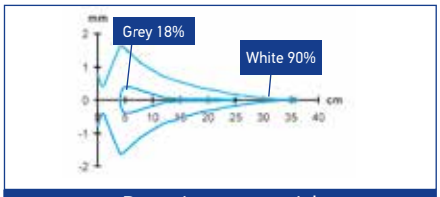


Detection area - radial

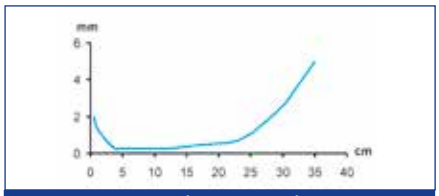
DIFFUSED (C) LASER RED EMISSION



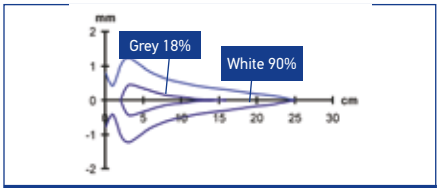
Operating distance



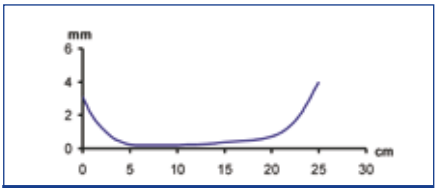
Detection area - axial



Resolution - axial

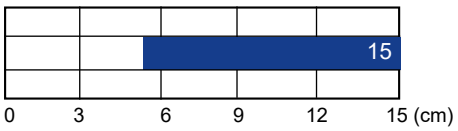


Detection area - radial

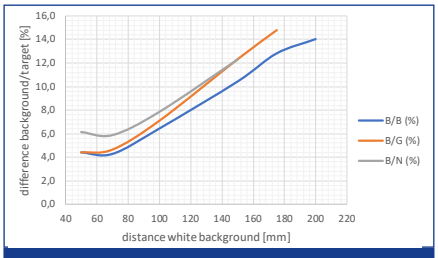


Resolution - radial

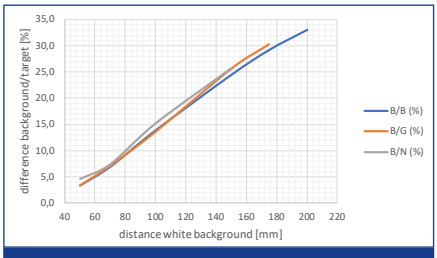
BACKGROUND SUPPRESSOR (M) AXIAL RED EMISSION



Operating distance

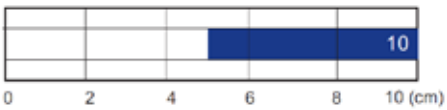


Detection difference with EASYtouch™ acquisition

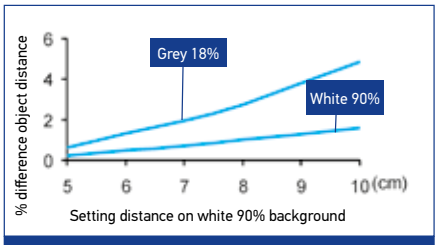


Detection difference with EASYtouch™ fine acquisition

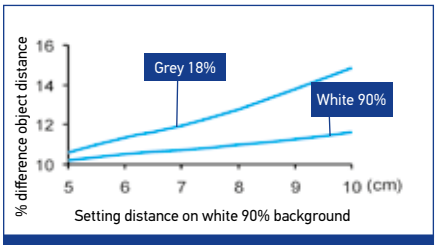
BACKGROUND SUPPRESSOR (M) RADIAL RED EMISSION



Operating distance

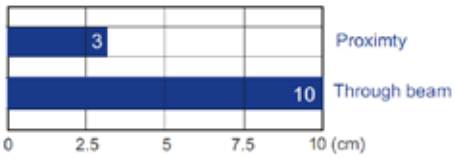


Detection difference with EASYtouch™ acquisition



Detection difference with fine acquisition

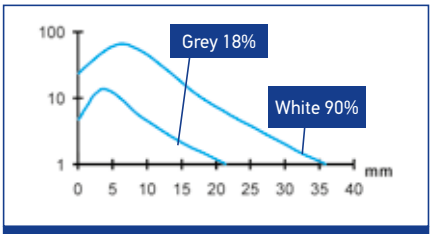
FIBER OPTIC (E) RED EMISSION



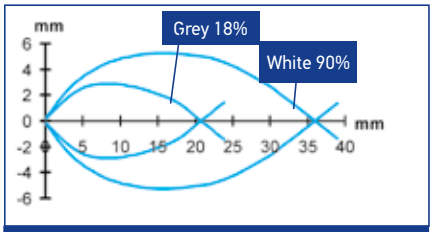
Operating distance with standard fibers

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

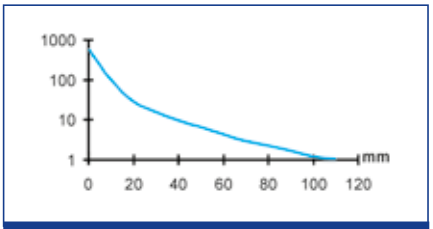
High efficiency fiber-optics or accessory lenses can be used to obtain larger operating distances.



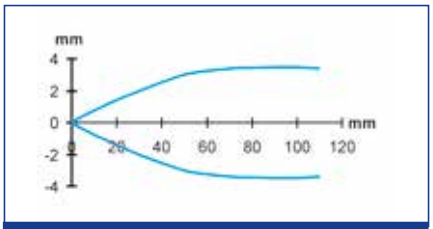
Excess gain - proximity *



Detection area - proximity *



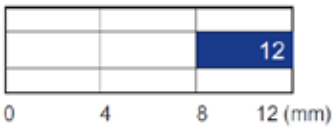
Excess gain - through beam *



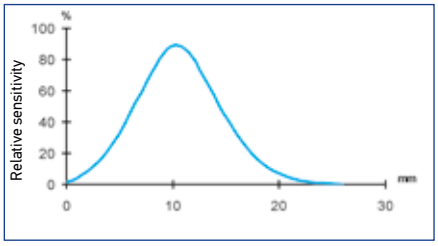
Detection area - through beam *

* standard Fiber-optics

MARK READER (W) WHITE EMISSION



Operating distance

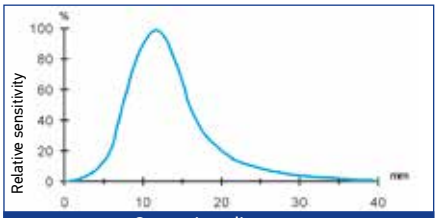


Operating distance

LUMINESCENCE (U) UV EMISSION

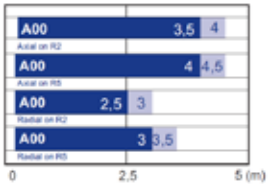


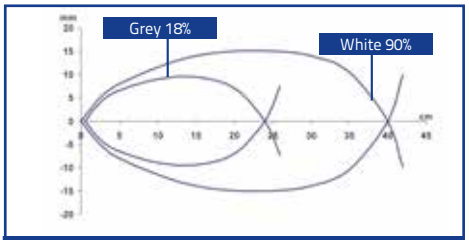
Operating distance



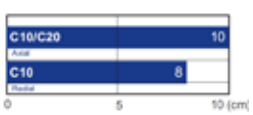
Operating distance

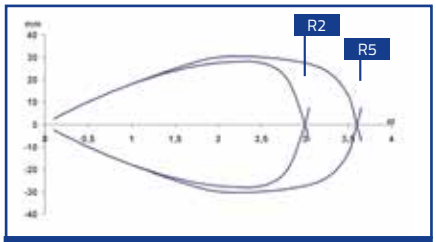
S5N...PK/NK MODELS





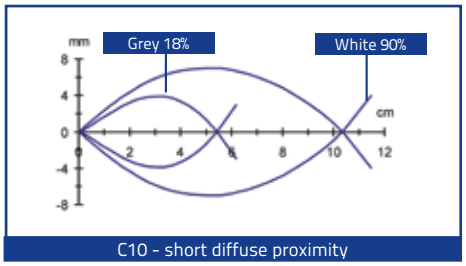
C01 - long diffuse proximity



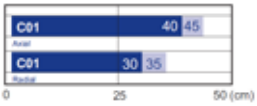


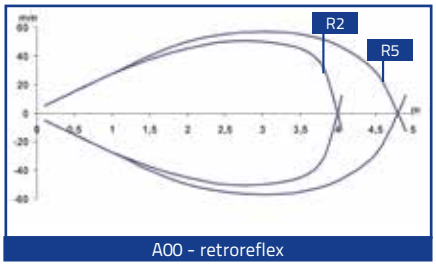
B01 - polarised retroreflex





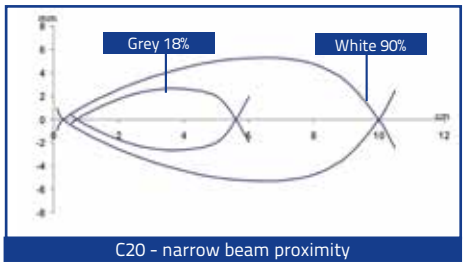
C10 - short diffuse proximity



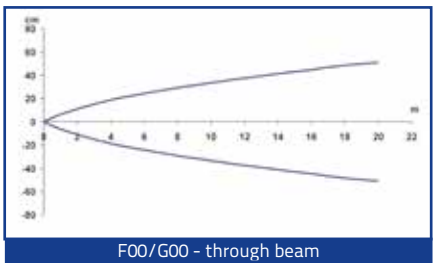


A00 - retroreflex





C20 - narrow beam proximity

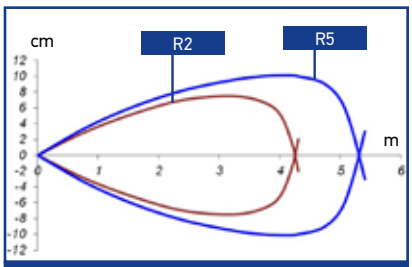


F00/G00 - through beam

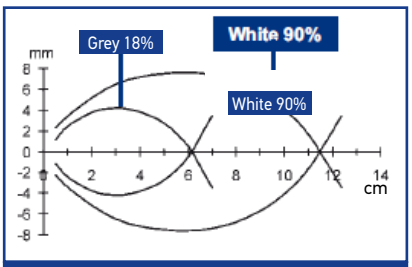
Recommended operating distance
Maximum operating distance

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

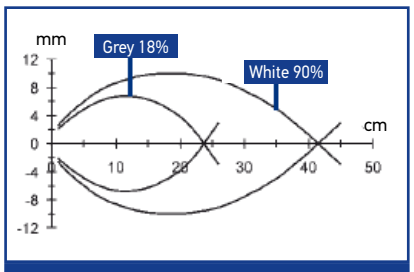
S5N-SA/NA MODELS



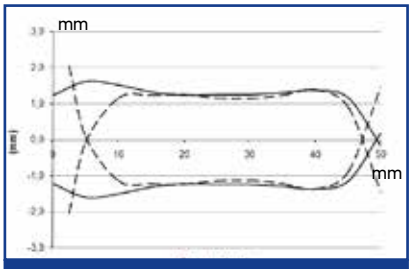
B00 - POLARIZED RETROREFLECTIVE



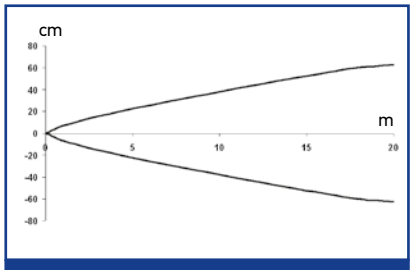
C00 - SHORT DIFFUSE PROXIMITY



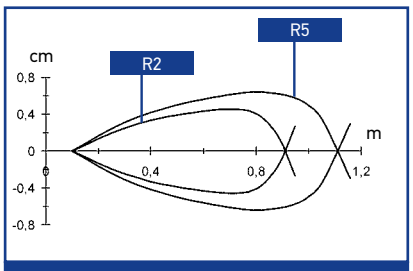
C10/C11 - MEDIUM DIFFUSE PROXIMITY



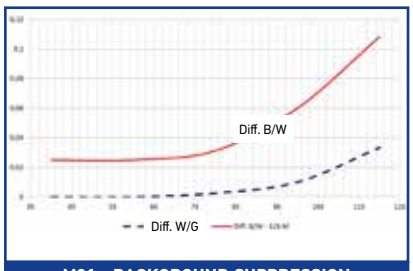
D50 - FIXED FOCUS PROXIMITY



F00/G01 - THROUGH BEAM



T01 - RETROREFLECTIVE BY TRASPARENT



M01 - BACKGROUND SUPPRESSION
Difference White/Grey and Black/White

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
			PNP	S5N-PA-2-A00-PP	952002081
		M12 Connector	NPN	S5N-PA-5-A00-NN	952002111
			PNP	S5N-PA-5-A00-PP	952002101
Polarized retroreflective		2m Cable	NPN	S5N-PA-2-B01-NN	952001611
			PNP	S5N-PA-2-B01-PP	952001011
		M12 Connector	NPN	S5N-PA-5-B01-NN	952001501
			PNP	S5N-PA-5-B01-PP	952001021
			IO-Link	S5N-PA-5-B01-OZ	952002200
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-B01-NN	952001781
			PNP	S5N-PR-2-B01-PP	952001031
		M12 Connector	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
			PNP	S5N-PL-2-B01-PP	952001361
		M12 Connector	NPN	S5N-PL-5-B01-NN	952001841
			PNP	S5N-PL-5-B01-PP	952001371
			IO-Link	S5N-PL-5-B01-OZ	952002250
	LASER, Radial optic	2m Cable	NPN	S5N-PH-2-B01-NN	952001951
			PNP	S5N-PH-2-B01-PP	952001941
		M12 Connector	NPN	S5N-PH-5-B01-NN	952001971
			PNP	S5N-PH-5-B01-PP	952001961
Long Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PA-2-C01-NN	952001621
			PNP	S5N-PA-2-C01-PP	952001051
		M12 Connector	NPN	S5N-PA-5-C01-NN	952001511
			PNP	S5N-PA-5-C01-PP	952001061
			IO-Link	S5N-PA-5-C01-OZ	952002210
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-C01-NN	952001791
			PNP	S5N-PR-2-C01-PP	952001071
		M12 Connector	NPN	S5N-PR-5-C01-NN	952001731
			PNP	S5N-PR-5-C01-PP	952001081
	LASER, Axial optic	2m Cable	NPN	S5N-PL-2-C01-NN	952001881
			PNP	S5N-PL-2-C01-PP	952001381
		M12 Connector	NPN	S5N-PL-5-C01-NN	952001851
			PNP	S5N-PL-5-C01-PP	952001391
			IO-Link	S5N-PL-5-C01-OZ	952002260
	LASER, Radial optic	2m Cable	NPN	S5N-PH-2-C01-NN	952001991
			PNP	S5N-PH-2-C01-PP	952001981
		M12 Connector	NPN	S5N-PH-5-C01-NN	952002011
			PNP	S5N-PH-5-C01-PP	952002001
Short Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PA-2-C10-NN	952001631
			PNP	S5N-PA-2-C10-PP	952001241
		M12 Connector	NPN	S5N-PA-5-C10-NN	952001521
			PNP	S5N-PA-5-C10-PP	952001251
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-C10-NN	952001801
			PNP	S5N-PR-2-C10-PP	952001491
		M12 Connector	NPN	S5N-PR-5-C10-NN	952001741
			PNP	S5N-PR-5-C10-PP	952001481
Medium Diffuse proximity	LED, Axial optic	2m Cable	NPN	S5N-PA-2-C21-NN	952002171
			PNP	S5N-PA-2-C21-PP	952002161
		M12 Connector	NPN	S5N-PA-5-C21-NN	952002191
			PNP	S5N-PA-5-C21-PP	952002181
Fixed focus		2m Cable	NPN	S5N-PA-2-D00-NN	952001641
			PNP	S5N-PA-2-D00-PP	952001091
		M12 Connector	NPN	S5N-PA-5-D00-NN	952001531
			PNP	S5N-PA-5-D00-PP	952001101
	LED, Radial optic	2m Cable	NPN	S5N-PR-2-D00-NN	952001811
			PNP	S5N-PR-2-D00-PP	952001111
		M12 Connector	NPN	S5N-PR-5-D00-NN	952001751
			PNP	S5N-PR-5-D00-PP	952001121
Fiber optic	LED, Axial optic	2m Cable	NPN	S5N-PA-2-E01-NN	952001651
			PNP	S5N-PA-2-E01-PP	952001131
		M12 Connector	NPN	S5N-PA-5-E01-NN	952001541
			PNP	S5N-PA-5-E01-PP	952001141
Through beam receiver		2m Cable	NPN	S5N-PA-2-F01-NN	952001661
			PNP	S5N-PA-2-F01-PP	952001151
		M12 Connector	NPN	S5N-PA-5-F01-NN	952001551
			PNP	S5N-PA-5-F01-PP	952001161
Through beam receiver	LED, Radial optic	2m Cable	NPN	S5N-PR-2-F01-NN	952001821
			PNP	S5N-PR-2-F01-PP	952001171
		M12 Connector	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
			PNP	S5N-PL-2-F01-PP	952001401
		M12 Connector	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
			PNP	S5N-PH-2-F01-PP	952002021
		M12 Connector	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
			IO-Link	S5N-PA-5-M03-OZ	952002230
	LED, Radial optic	M12 Connector	PNP	S5N-PS-5-M03-PP	952001931
			NPN	S5N-PS-5-M03-NN	952001921
		2m Cable	PNP	S5N-PS-2-M03-PP	952001911
			NPN	S5N-PS-2-M03-NN	952001901
Retroreflective for transparent	LED, Axial optic	2m Cable	NPN	S5N-PA-2-T01-NN	952001691
			PNP	S5N-PA-2-T01-PP	952001261
		M12 Connector	NPN	S5N-PA-5-T01-NN	952001581
			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
		M12 Connector	PNP	S5N-PR-5-A00-PK	952701392
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	952701092
			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
		M12 Connector	NPN	S5N-PA-5-F00-NK	952701382
			PNP	S5N-PA-5-F00-PK	952701312
	LED, Radial optic		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
		Pig Tail M12	PNP	S5N-SA-3-B00-PK	952301122
Diffuse proximity		2m Cable	NPN	S5N-SA-2-C00-NK	952301072
			PNP	S5N-SA-2-C00-PK	952301022
Short Diffuse proximity		Pig Tail M12	PNP	S5N-SA-3-C00-PK	952301132
			PNP	S5N-SA-3-C10-PK	952301142
Fixed Focus			PNP	S5N-SA-3-D50-PK	952301541
Through beam receiver			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
			PNP	S5N-MA-2-A00-PP	952022081
		M12 Connector	NPN	S5N-MA-5-A00-NN	952022111
			PNP	S5N-MA-5-A00-PP	952022101
Polarized retroreflective		2m Cable	NPN	S5N-MA-2-B01-NN	952021501
			PNP	S5N-MA-2-B01-PP	952021001
		M12 Connector	NPN	S5N-MA-5-B01-NN	952021661
			PNP	S5N-MA-5-B01-PP	952021201
			IO-Link	S5N-MA-5-B01-OZ	952022160
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-B01-NN	952021601
			PNP	S5N-MR-2-B01-PP	952021141
		M12 Connector	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
			PNP	S5N-ML-2-B01-PP	952021401
		M12 Connector	NPN	S5N-ML-5-B01-NN	952021851
			PNP	S5N-ML-5-B01-PP	952021441
			IO-Link	S5N-ML-5-B01-OZ	952022180
	LASER, Radial optic	2m Cable	NPN	S5N-MH-2-B01-NN	952021951
			PNP	S5N-MH-2-B01-PP	952021941
		M12 Connector	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
			PNP	S5N-MA-2-C01-PP	952021011
		M12 Connector	NPN	S5N-MA-5-C01-NN	952021671
			PNP	S5N-MA-5-C01-PP	952021211
			IO-Link	S5N-MA-5-C01-OZ	952022200
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-C01-NN	952021611
			PNP	S5N-MR-2-C01-PP	952021151
		M12 Connector	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
			PNP	S5N-ML-2-C01-PP	952021411
		M12 Connector	NPN	S5N-ML-5-C01-NN	952021861
			PNP	S5N-ML-5-C01-PP	952021451
			IO-Link	S5N-ML-5-C01-OZ	952022190
	LASER, Radial optic	2m Cable	NPN	S5N-MH-2-C01-NN	952021991
			PNP	S5N-MH-2-C01-PP	952021981
		M12 Connector	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
			PNP	S5N-MA-2-C10-PP	952021021
		M12 Connector	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
			PNP	S5N-MR-2-C10-PP	952021491
		M12 Connector	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
			PNP	S5N-MA-2-C21-PP	952022121
		M12 Connector	NPN	S5N-MA-5-C21-NN	952022151
			PNP	S5N-MA-5-C21-PP	952022141
Fixed focus		2m Cable	NPN	S5N-MA-2-D00-NN	952021531
			PNP	S5N-MA-2-D00-PP	952021031
		M12 Connector	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
			PNP	S5N-MR-2-D00-PP	952021161
		M12 Connector	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
			PNP	S5N-MA-2-E01-PP	952021041
		M12 Connector	NPN	S5N-MA-5-E01-NN	952021891
			PNP	S5N-MA-5-E01-PP	952021241
Through beam receiver		2m Cable	NPN	S5N-MA-2-F01-NN	952021541
			PNP	S5N-MA-2-F01-PP	952021051
		M12 Connector	NPN	S5N-MA-5-F01-NN	952021701
			PNP	S5N-MA-5-F01-PP	952021251
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-F01-NN	952021641
			PNP	S5N-MR-2-F01-PP	952021171
		M12 Connector	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
			PNP	S5N-ML-2-F01-PP	952021421
		M12 Connector	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
			PNP	S5N-MH-2-F01-PP	952022021
		M12 Connector	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		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
			PNP	S5N-MA-2-T01-PP	952021091
		M12 Connector	NPN	S5N-MA-5-T01-NN	952021731
			PNP	S5N-MA-5-T01-PP	952021291
	LED, Radial optic	2m Cable	NPN	S5N-MR-2-T01-NN	952021651
			PNP	S5N-MR-2-T01-PP	952021191
		M12 Connector	NPN	S5N-MR-5-T01-NN	952021811
			PNP	S5N-MR-5-T01-PP	952021391
Luminescence	LED, Axial optic	M12 Connector	PNP	S5N-MA-5-U03-PP	952021301
Contrast		2m Cable	PNP	S5N-MA-2-W03-PP	952021111
		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)

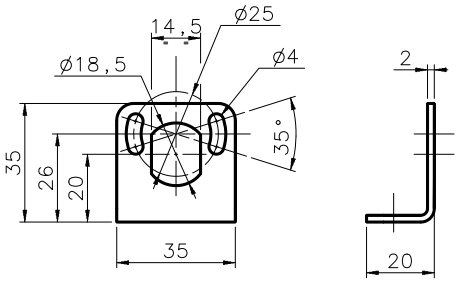
Retroreflective	LED, Axial optic	M12 Connector	NPN	S5N-MA-5-A00-NK	952701802
			PNP	S5N-MA-5-A00-PK	952701532
Polarized retroreflective			NPN	S5N-MA-5-B01-NK	952701812
			PNP	S5N-MA-5-B01-PK	952701762
Diffuse proximity		2m Cable	NPN	S5N-MA-2-C01-NK	952701622
			PNP	S5N-MA-2-C01-PK	952701562
		M12 Connector	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
		M12 Connector	NPN	S5N-MA-5-C10-NK	952701832
			PNP	S5N-MA-5-C10-PK	952701522
Through beam receiver			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

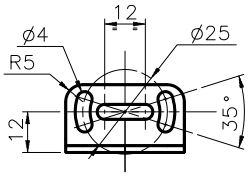
S5N - INOX HOUSING - L/D INPUT MODELS MODELS (S5N-NA...)

Polarized retroreflective	LED, Axial optic	M12 Connector	NPN	S5N-NA-5-B01-NK	952301461
			PNP	S5N-NA-5-B01-PK	952301381
Diffuse proximity Inox			NPN	S5N-NA-5-C11-NK	952301481
			PNP	S5N-NA-5-C11-PK	952301401
Through beam receiver Inox			NPN	S5N-NA-5-F01-NK	952301511
			PNP	S5N-NA-5-F01-PK	952301431
Through beam emitter inox			-	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

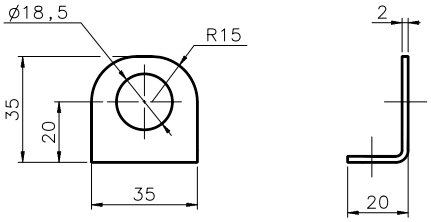
ACCESSORIES

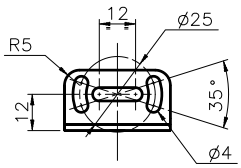
ST-5010



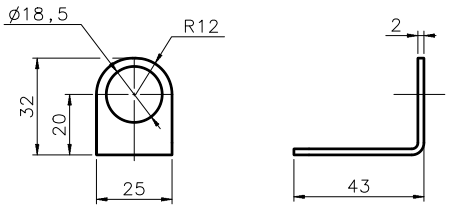


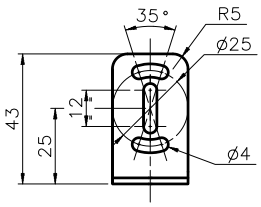
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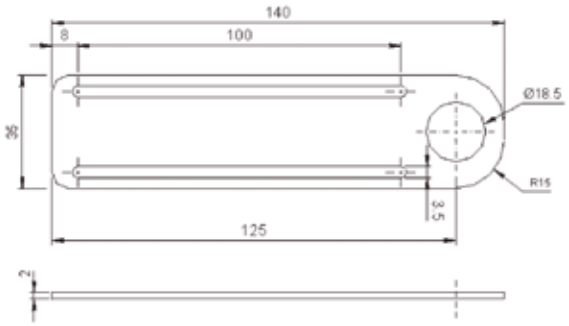


ST-5012

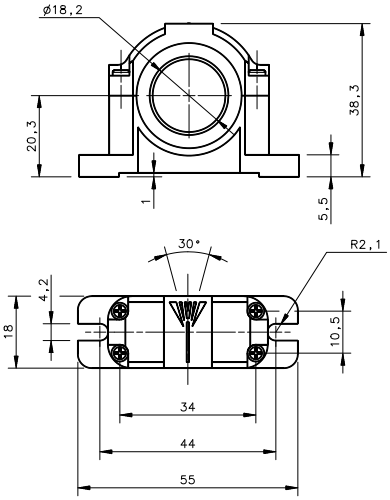




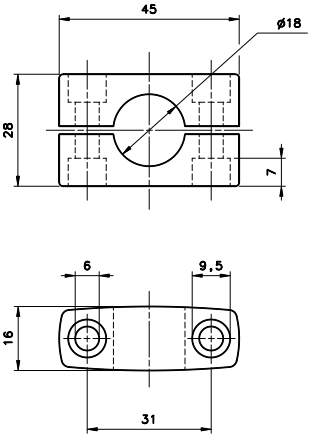
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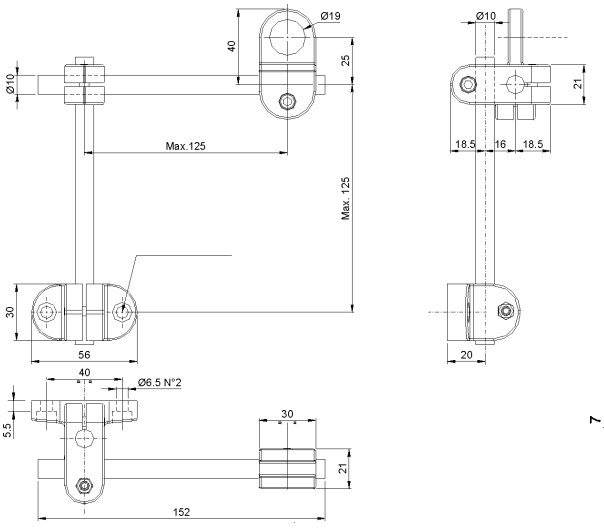
SWING-18



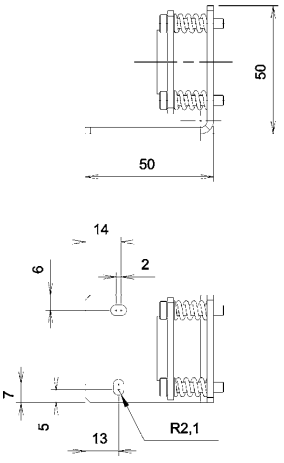
SP-40

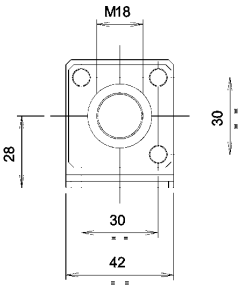


JOINT 18

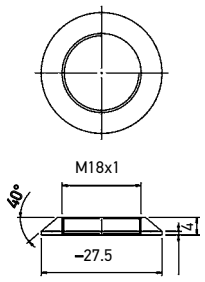


MICRO 18





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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