TUBULAR SENSORS

S15

COLATACO



PLASTIC AND STAINLESS STEEL TUBULAR M18 PHOTOELECTRIC SENSORS EVERY ENVIRONMENT

- Short case models for cost and space savings
- Plastic and stainless steel case with IP69K protection
- All optic functions at optimal operating distances
- Models with fixed settings or adjustment trimmer
- Cable, M12 connector and pig-tail models



APPLICATIONS

- Processing and Packaging machinery
- Assembling and Conveyor lines

(*) Stainless steel models. ATEXII 3DG

Through beam		020 m
Retroreflective (on R2 reflector)		0,15 m
Polarized retroreflective		0,14 m
Retroreflective for transparent (on R2 reflector)		0,10,8 m
Diffuse proximity		short distance 0100 mm
		medium distance 0350 mm
		long distance 1 m
Fixed focus		050 mm
Background suppression		40120 mm
	Vdc	1030 V
Power supply	Vac	
	Vac/dc	
	PNP	•
	NPN	•
Output	NPN/PNP	
	relay	
	other	
	cable	•
Connection	connector	•
	pig-tail	•
Approximate dimensions (mm)		M18x44/48
Housing material		ABS, INOX AISI 316L
Mechanical protection		IP65 - IP67 - IP69K

TECHNICAL DATA

Power supply	12 30 Vdc (limit values)
Ripple	2 Vpp max.
Consumption	25 mA max.
tinka emitenten	red LED 660 nm (mod. S15B/D/T/M)
Light emission	IR LED 880 nm (mod. S15A/C/G)
Setting	mono-turn trimmer (mod. S15A01/B01/Cx1/T01/F01) and 4 turns (mod. S15M01)
Operating mode	white wire or pin 2 not connected: LIGHT mode (mod. S15C/D/M)/DARK mode (mod. S15A/B/T/F)
	white wire or pin 2 connected to: 0 V DARK mode, +Vcc LIGHT mode
Indiantana	yellow OUTPUT LED
Indicators	green STABILITY LED, POWER LED (mod. S15G)
Output	PNP or NPN
Output current	100 mA max.
Saturation voltage	2 V max.
Response time	1 ms (mod. S15A/B/C/T/M)
	2 ms (mod. S15F)
	500 μs (mod. S15D)
	500 Hz (mod. S15A/B/C/T/M)
Switching frequency	250 Hz (mod. S15F)
	1 kHz (mod. S15D)
Connection	M12 4-pole connector, 2 m cable Ø 4 mm, 150 mm length Ø 4 mm cable with M12 4-pole connector (pig-tail vers.)
Dielectric strength	500 Vac 1 min., between electronics and housing
Insulation resistence	>20 M Ω 500 Vdc, between electronics and housing
Mechanical protection	IP65, IP67, IP69K
Ambient light rejection	according to EN 60947-5-2
Vibrations	0.5 mm amplitude, 10 55 Hz frequency, for each axis (EN60068-2-6)
Housing material	ABS TERLURAN, INOX AISI 316L (mod. S15-PA) - (mod. S15-NA)
Lens material	plastic PMMA
Operating temperature	-25 55°C
Storage temperature	-25 70°C
Weight	40 g max. conn. vers., 55 g max. cable vers., 35 g max. pig-tail vers.

CONNECTIONS

CABLE AND PIG-TAIL

Through beam emitter

2

4

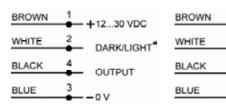
3

12...30 VDC

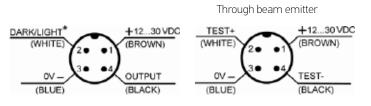
TEST+

TEST-

- 0 V

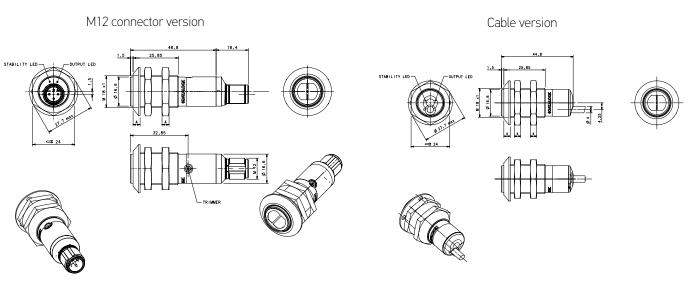


M12 CONNECTOR

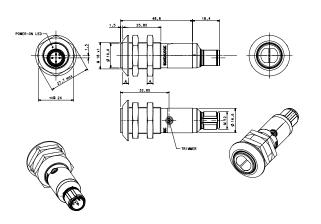


DIMENSIONS

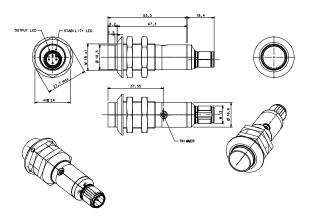
PLASTIC



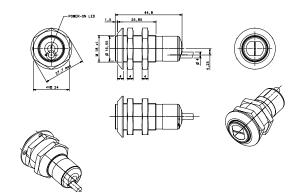
Through beam emitter - M12 connector version



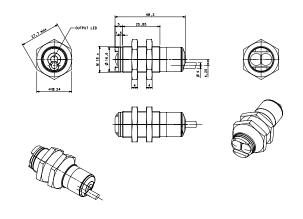
Background suppression - M12 connector version



Through beam emitter - cable version

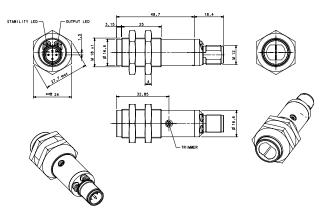


Diffuse proximity - cable version

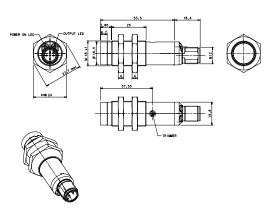


STAINLESS STEEL

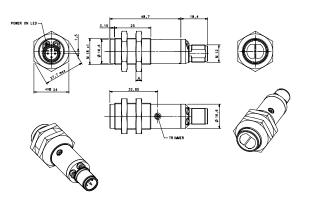
M12 connector version



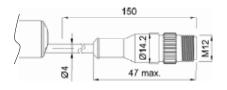
Background suppression - M12 connector version



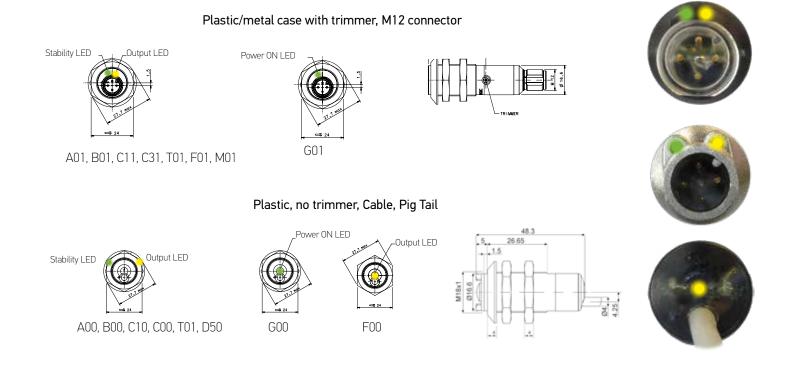
Through beam emitter - M12 connector version



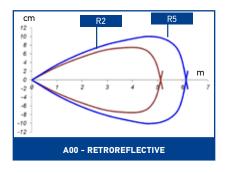


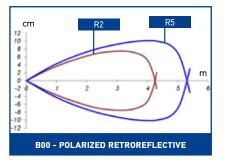


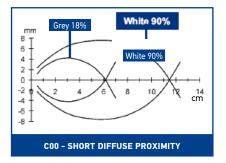
INDICATORS AND SETTINGS

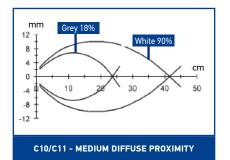


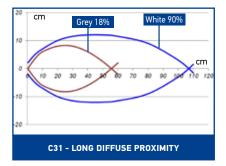
DETECTION DIAGRAMS

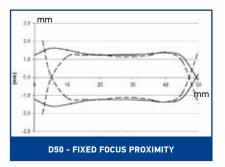


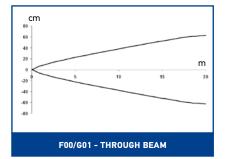


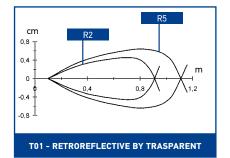


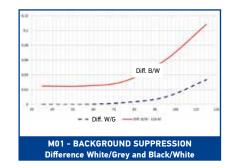










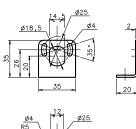


MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION		CONNECTION		MODEL	ORDER N
Retroreflective		2 m cable	NPN	S15-PA-2-A00-NK	95230105
	Plastic		PNP	S15-PA-2-A00-PK	95230100
		M12 connector	NPN	S15-PA-5-A01-NK	95230130
	Flastic		PNP	S15-PA-5-A01-PK	95230122
Renorenective		pig-tail	NPN	S15-PA-3-A00-NK	95230116
			PNP	S15-PA-3-A00-PK	95230111
	Stainless Steel	M12 connector	NPN	S15-NA-5-A01-NK	95230145
			PNP	S15-NA-5-A01-PK	95230137
		2 m cable	NPN	S15-PA-2-B00-NK	95230106
			PNP	S15-PA-2-B00-PK	95230101
	Disatia		NPN	S15-PA-5-B01-NK	95230131
Delevised Detwood estima	Plastic	M12 connector	PNP	S15-PA-5-B01-PK	95230123
Polarized Retroreflective			NPN	S15-PA-3-B00-NK	95230117
		pig-tail	PNP	S15-PA-3-B00-PK	95230112
			NPN	S15-NA-5-B01-NK	95230146
	Stainless Steel	M12 connector	PNP	S15-NA-5-B01-PK	95230138
			NPN	S15-PA-2-C00-NK	95230107
Diffuse proximity		2 m cable	PNP	S15-PA-2-C00-PK	95230102
(short distance)	Plastic		NPN	S15-PA-3-C00-NK	95230118
		pig-tail	PNP	S15-PA-3-C00-PK	95230113
			NPN	S15-PA-2-C10-NK	95230108
		2 m cable	PNP	S15-PA-2-C10-PK	95230103
			NPN	S15-PA-5-C11-NK	95230133
Diffuse proximity	Plastic	M12 connector	PNP	S15-PA-5-C11-PK	95230125
(medium distance)			NPN	S15-PA-3-C10-NK	95230119
		pig-tail	PNP	S15-PA-3-C10-PK	95230114
			NPN	S15-NA-5-C11-NK	95230148
	Stainless Steel	M12 connector	PNP	S15-NA-5-C11-PK	95230140
			NPN	S15-PA-5-C31-NK	95230134
Diff	Plastic Stainless Steel	– M12 connector	PNP	S15-PA-5-C31-PK	95230126
Diffuse proximity (long distance)			NPN	S15-NA-5-C31-NK	95230120
			PNP	S15-NA-5-C31-PK	95230147
			NPN	S15-PA-2-D50-NK	95230141
		2 m cable	PNP	S15-PA-2-D50-PK	95230152
Fixed focus	Plastic		NPN	S15-PA-3-D50-NK	95230155
		pig-tail	PNP	S15-PA-3-D50-PK	95230155
			NPN	S15-PA-2-F00-NK	95230109
		2 m cable	PNP		
			NPN	S15-PA-2-F00-PK S15-PA-5-F01-NK	95230104
	Plastic	M12 connector	PNP	S15-PA-5-F01-NK S15-PA-5-F01-PK	95230136
Through beam receiver			NPN	S15-PA-5-F01-PK S15-PA-3-F00-NK	95230128
		pig-tail	PNP		
				S15-PA-3-F00-PK	95230115
	Stainless Steel	M12 connector	NPN	S15-NA-5-F01-NK	95230151
		0! !	PNP	S15-NA-5-F01-PK	95230143
	Plastic	2 m cable	-	S15-PA-2-G00-XG	95230110
Through beam emitter		M12 connector	-	S15-PA-5-G01-XG	95230129
		pig-tail	-	S15-PA-3-G00-XG	95230121
Background suppression	Stainless Steel	M12 connector	-	S15-NA-5-G01-XG	95230144
	Plastic		NPN	S15-PA-5-M01-NK	95230135
	Stainless Steel	M12 connector	PNP	S15-PA-5-M01-PK	95230127
			NPN	S15-NA-5-M01-NK	95230150
			PNP	S15-NA-5-M01-PK	95230142
Transparent	Plastic	M12 connector	NPN	S15-PA-5-T01-NK	95230132
	Stainless Steel		PNP NPN	S15-PA-5-T01-PK	95230124
Iransparent				S15-NA-5-T01-NK	95230147

ACCESSORIES

ST-5010





ST-5011

R15

ø25

ø4

1645

<u>ø18,5</u>

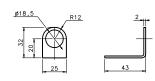
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R5

2

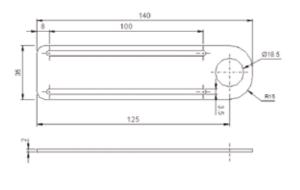
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ST-5012

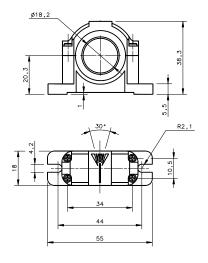




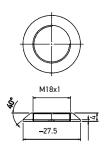
ST-5017



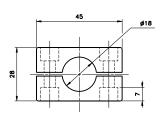
SWING-18

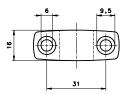


PLASTIC NUT



SP-40





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
ST1218	M12/M18 mounting brackets	95ACC3340
ST1830	M18/M30 mounting brackets	95ACC3350
SP-40	mounting bracket tubular	95ACC1370
SWING-18	Adjustable support for M18 tubular sensors	895000006
PLASTIC NUT	flared mounting nut	95ACC2630

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector		3 m	CS-A1-02-G-03	95A251380
	(male many DVC	5 m	CS-A1-02-G-05	95A251270
	4-pole, grey, P.V.C.	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
	_	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
Radial M12 Connector	4-pole, grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245
		10 m	CS-A2-02-G-10	95A251260
	(2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
		3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
Axial M12 Connector		10 m	CV-A1-22-B-10	95ACC1500
	(male shielded blesty DVC	15 m	CV-A1-22-B-15	95ACC2070
	4-pole, shielded, black, P.V.C.	25 m	CV-A1-22-B-25	95ACC2090
		3 m	CV-A2-22-B-03	95ACC1540
Radial M12 Connector		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
	4-pole, U.L., black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
Axial M12 Connector		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
		Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003

DATALOGIC PRODUCT OFFERING

















Sensors

Hand Held scanners

Mobile Computers

Laser Marking Systems

Safety Laser Scanner

Vision Systems

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Stationary Industrial Scanners

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