DATALOGIC

ENSORS

Plastic and stainless steel tubular M18 photoelectric sensors every environment

R-4

- 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

S15

S15

-Processing and Packaging machinery -Assembling and Conveyor lines



CE CUUS LISTED IP69K DIVERSEY ECOLAB (*) Stainless steel models. ATEX II 3DG 0...20 m

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	

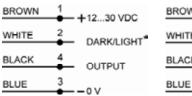
DATALOGIC

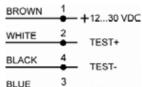
TECHNICAL DATA				
Power supply	12 30 Vdc (limit values)			
Ripple	2 Vpp max.			
Consumption	25 mA max.			
Liebb enviroine	red LED 660 nm (mod. S15B/D/T/M)			
Light emission	IR LED 880 nm (mod. S15A/C/G)			
Setting	mono-turn trimmer (mod. S15A01/B01/Cx1/T01/F01) and 4 turns (mod. S15M01)			
Operating 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			
la l'actava	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.			
	1 ms (mod. S15A/B/C/T/M)			
Response time	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



Through beam emitter

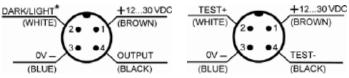




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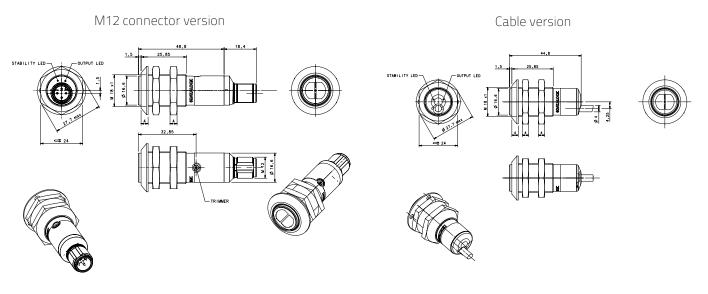
M12 CONNECTOR



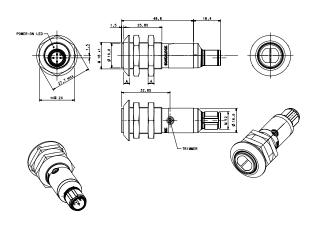


DIMENSIONS

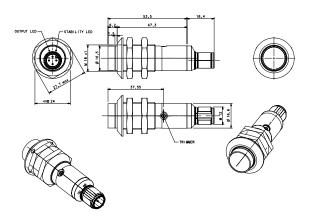
PLASTIC



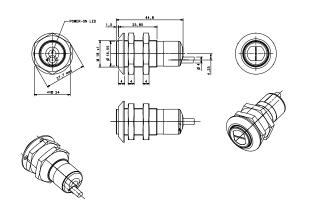
Through beam emitter - M12 connector version



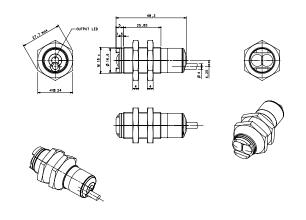
Background suppression - M12 connector version



Through beam emitter - cable version

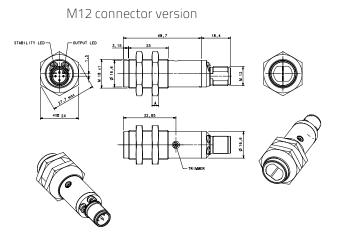


Diffuse proximity - cable version



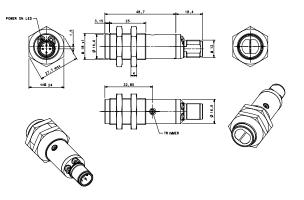
DATALOGIC

STAINLESS STEEL

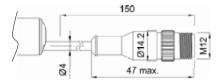


Background suppression - M12 connector version

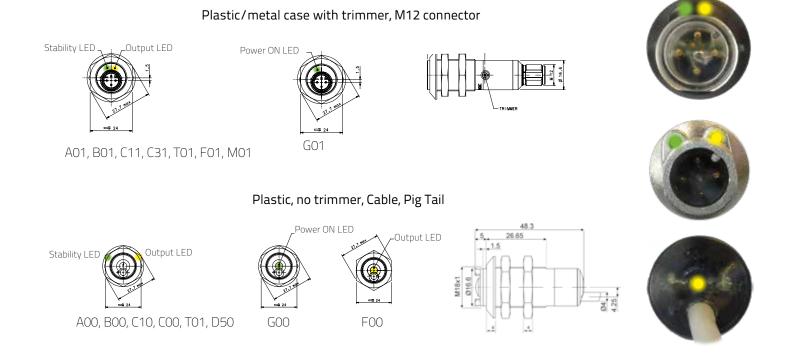
Through beam emitter - M12 connector version



Pig-tail version

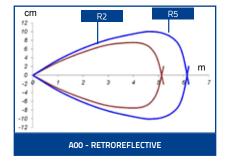


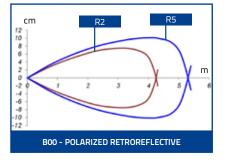
INDICATORS AND SETTINGS

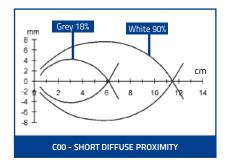


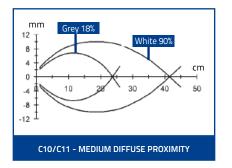
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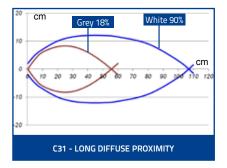
DETECTION DIAGRAMS

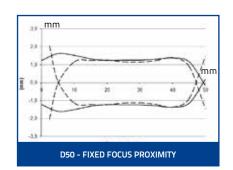


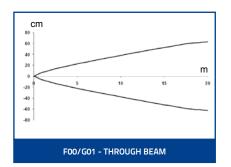


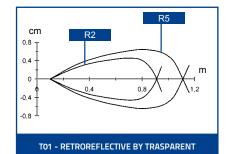


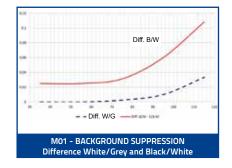












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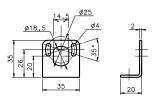
MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	HOUSING	CONNECTION	OUTPUT	MODEL	ORDER No
		2 m cable	NPN	S15-PA-2-A00-NK	95230105
		2 11 CUDIC	PNP	S15-PA-2-A00-PK	95230100
	Plastic	M12 connector	NPN	S15-PA-5-A01-NK	95230130
Retroreflective	T labele		PNP	S15-PA-5-A01-PK	95230122
Retroreflective		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
	Stainless Steel		PNP	S15-NA-5-A01-PK	95230137
	Plastic	2 m cable	NPN	S15-PA-2-B00-NK	95230106
			PNP	S15-PA-2-B00-PK	95230101
			NPN	S15-PA-5-B01-NK	95230131
Polarized Retroreflective	Plastic		PNP	S15-PA-5-B01-PK	95230123
Polarizeu Recipieneccive		pig tail	NPN	S15-PA-3-B00-NK	95230117
		pig-tail	PNP	S15-PA-3-B00-PK	95230112
	Chairdean Chaid	M12	NPN	S15-NA-5-B01-NK	95230146
	Stainless Steel	M12 connector	PNP	S15-NA-5-B01-PK	95230138
		2	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	95230129
		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		PNP	S15-PA-5-C31-PK	95230134
Diffuse proximity (long distance)	Stainless Steel	M12 connector	NPN	S15-NA-5-C31-NK	95230120
			PNP	S15-NA-5-C31-PK	95230149
			NPN	S15-PA-2-D50-NK	95230141
		2 m cable	PNP	S15-PA-2-D50-NK	95230153
Fixed focus	Plastic			S15-PA-2-D50-PK	
		pig-tail	PNP		95230155
				S15-PA-3-D50-PK	95230154
		2 m cable	NPN	S15-PA-2-F00-NK	95230109
			PNP	S15-PA-2-F00-PK	95230104
	Plastic	M12 connector	NPN	S15-PA-5-F01-NK	95230136
Through beam receiver			PNP	S15-PA-5-F01-PK	95230128
		pig-tail	NPN	S15-PA-3-F00-NK	95230120
			PNP	S15-PA-3-F00-PK	95230115
	Stainless Steel	M12 connector	NPN	S15-NA-5-F01-NK	95230151
			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
	Stainless Steel	M12 connector	-	S15-NA-5-G01-XG	95230144
	Plastic		NPN	S15-PA-5-M01-NK	95230135
Background suppression	Stainless Steel	M12 connector	PNP	S15-PA-5-M01-PK	95230127
		M12 connector	NPN	S15-NA-5-M01-NK	95230150
			PNP	S15-NA-5-M01-PK	95230142
	Plastic Stainless Steel		NPN	S15-PA-5-T01-NK	95230132
Transparopt		M12 connector	PNP	S15-PA-5-T01-PK	95230124
Transparent		IVITZ CONNECLOR	NPN	S15-NA-5-T01-NK	95230147
			PNP	S15-NA-5-T01-PK	95230139

DATALOGIC

ACCESSORIES

ST-5010





ST-5011

R15

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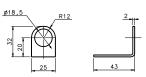
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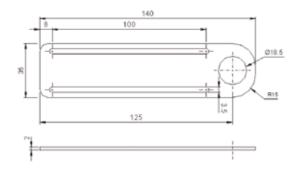


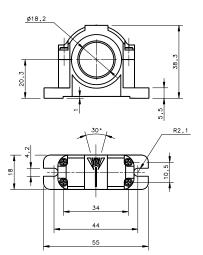
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ST-5017

SWING-18

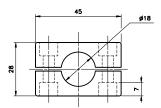
PLASTIC NUT

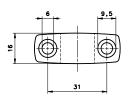




M18x1 14 **Ø**27.5

SP-40





mm

DATALOGIC

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

ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector		3 m	CS-A1-02-G-03	95A251380
		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
Radial M12 Connector	()	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
	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
		15 m	CV-A1-22-B-15	95ACC2070
	4-pole, shielded, black, P.V.C.	25 m	CV-A1-22-B-25	95ACC2090
Radial M12 Connector		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
		Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003