



## **S15**

### 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





-Processing and Packaging machinery -Assembling and Conveyor lines



























(\*) Stainless steel models. VLEX II 3DC

		ATEX II 3DG
S15		
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	
	PNP	•
	Vac/dc PNP	•
Output	NPN/PNP	
	Vac Vac/dc PNP NPN NPN/PNP relay other cable connector	
	cable	•
Connection	connector	•
		•
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.			
	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 disabase	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 MΩ 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

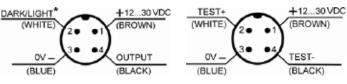
#### CABLE AND PIG-TAIL

Through beam emitter



#### M12 CONNECTOR

Through beam emitter

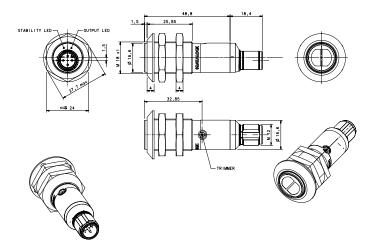


### **ODATALOGIC**

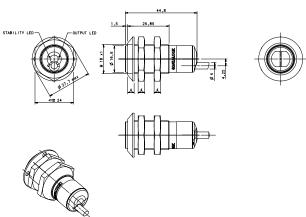
#### **DIMENSIONS**

#### **PLASTIC**

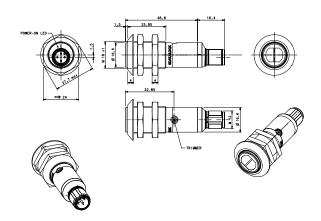
M12 connector version



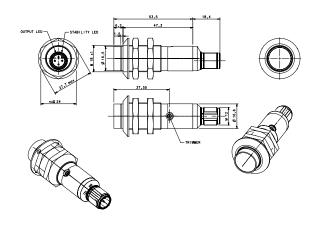




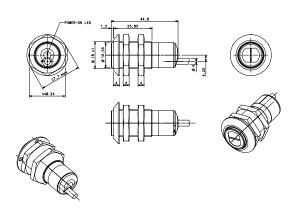
Through beam emitter - M12 connector version



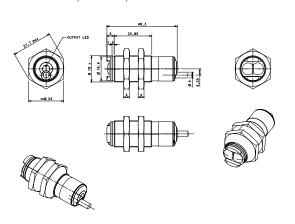
Background suppression - M12 connector version



Through beam emitter - cable version



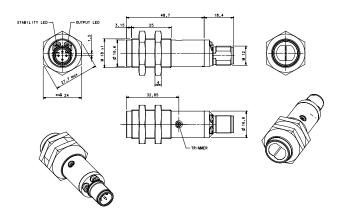
Diffuse proximity - cable version



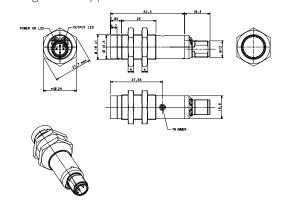
### **ODATALOGIC**

#### STAINLESS STEEL

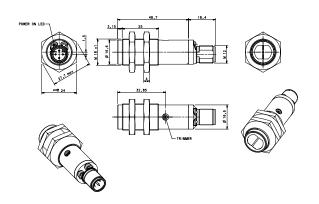
M12 connector version



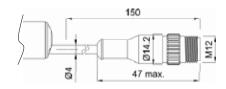
Background suppression - M12 connector version



Through beam emitter - M12 connector version

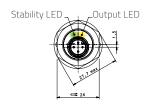


Pig-tail version



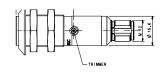
#### **INDICATORS AND SETTINGS**

#### Plastic/metal case with trimmer, M12 connector



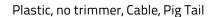


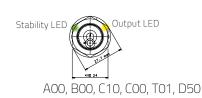
Power ON LED

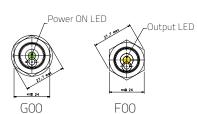


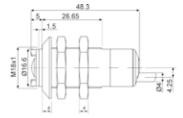








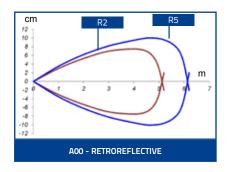


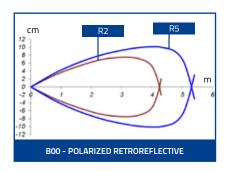


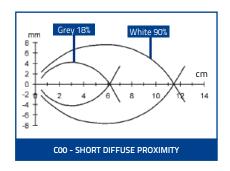


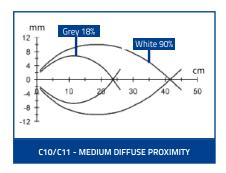
### **DATALOGIC**

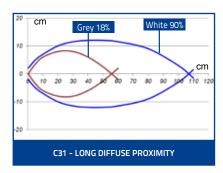
#### **DETECTION DIAGRAMS**

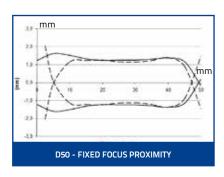


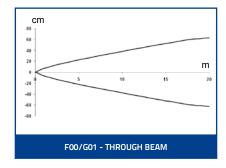


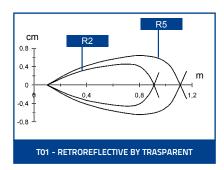


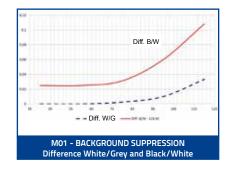












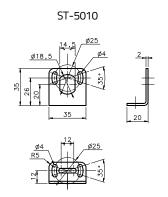


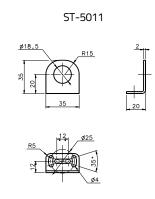
#### MODEL SELECTION AND ORDER INFORMATION

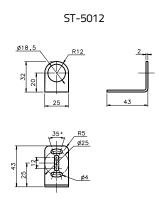
ODTIC FUNCTION	HOUSING	COMMECTION	OUTPUT	MODEL	ODDED No
OPTIC FUNCTION	HOUSING	CONNECTION		MODEL	ORDER No.
		2 m cable	NPN	S15-PA-2-A00-NK S15-PA-2-A00-PK	952301051 952301001
			NPN		952301001
	Plastic	M12 connector		S15-PA-5-A01-NK	
Retroreflective			PNP	S15-PA-5-A01-PK	952301220
		pig-tail	NPN	S15-PA-3-A00-NK	952301161
			PNP	S15-PA-3-A00-PK	952301111
	Stainless Steel	M12 connector	NPN	S15-NA-5-A01-NK	952301450
			PNP	S15-NA-5-A01-PK	952301370
		2 m cable	NPN	S15-PA-2-B00-NK	952301061
			PNP	S15-PA-2-B00-PK	952301011
	Plastic	M12 connector	NPN	S15-PA-5-B01-NK	952301310
Polarized Retroreflective			PNP	S15-PA-5-B01-PK	952301230
		pig-tail	NPN	S15-PA-3-B00-NK	952301171
		p.6 ta	PNP	S15-PA-3-B00-PK	952301121
	Stainless Steel	M12 connector	NPN	S15-NA-5-B01-NK	952301460
	Starriess Steer	WITZ CONTICCEO	PNP	S15-NA-5-B01-PK	952301380
		2 m cable	NPN	S15-PA-2-C00-NK	952301071
Diffuse proximity	Plastic	Z III CADIE	PNP	S15-PA-2-C00-PK	952301021
(short distance)	Plastic	pie tail	NPN	S15-PA-3-C00-NK	952301181
		pig-tail	PNP	S15-PA-3-C00-PK	952301131
		2	NPN	S15-PA-2-C10-NK	952301081
		2 m cable	PNP	S15-PA-2-C10-PK	952301031
			NPN	S15-PA-5-C11-NK	952301330
Diffuse proximity	Plastic	M12 connector	PNP	S15-PA-5-C11-PK	952301250
(medium distance)			NPN	S15-PA-3-C10-NK	952301191
		pig-tail	PNP	S15-PA-3-C10-PK	952301141
			NPN	S15-NA-5-C11-NK	952301480
	Stainless Steel	M12 connector	PNP	S15-NA-5-C11-PK	952301400
			NPN	S15-PA-5-C31-NK	952301340
Diffuse proximity	Plastic		PNP	S15-PA-5-C31-PK	952301260
(long distance)		M12 connector	NPN	S15-NA-5-C31-NK	952301490
	Stainless Steel		PNP	S15-NA-5-C31-PK	952301410
			NPN	S15-PA-2-D50-NK	952301530
		2 m cable	PNP	S15-PA-2-D50-PK	952301520
Fixed focus	Plastic		NPN	S15-PA-3-D50-NK	952301550
		pig-tail	PNP	S15-PA-3-D50-PK	952301550
				S15-PA-2-F00-NK	952301040
		2 m cable	NPN		
			PNP	S15-PA-2-F00-PK	952301041
	Plastic	M12 connector	NPN	S15-PA-5-F01-NK	952301360
Through beam receiver			PNP	S15-PA-5-F01-PK	952301280
		pig-tail	NPN	S15-PA-3-F00-NK	952301201
		-	PNP	S15-PA-3-F00-PK	952301151
	Stainless Steel	M12 connector	NPN	S15-NA-5-F01-NK	952301510
			PNP	S15-NA-5-F01-PK	952301430
	Plastic	2 m cable	-	S15-PA-2-G00-XG	952301101
Through beam emitter		M12 connector	-	S15-PA-5-G01-XG	952301290
mough beam emitter		pig-tail	-	S15-PA-3-G00-XG	952301211
	Stainless Steel	M12 connector	-	S15-NA-5-G01-XG	952301440
	Plastic Stainless Steel		NPN	S15-PA-5-M01-NK	952301350
Background suppression		M12 connector	PNP	S15-PA-5-M01-PK	952301270
Sacretouna suppression			NPN	S15-NA-5-M01-NK	952301500
	5:4111033 5:661		PNP	S15-NA-5-M01-PK	952301420
	Plastic		NPN	S15-PA-5-T01-NK	952301320
Transparent	FidSUL	M12 coppostor	PNP	S15-PA-5-T01-PK	952301240
Transparent	Chainless Charl	M12 connector	NPN	S15-NA-5-T01-NK	952301470
	Stainless Steel		PNP	S15-NA-5-T01-PK	952301390

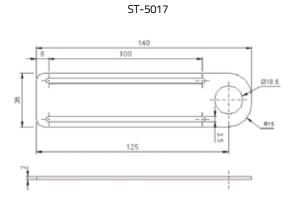


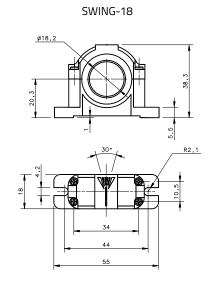
### **ACCESSORIES**

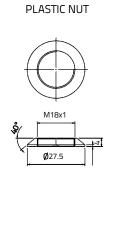


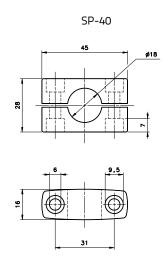












mm



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**

ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.
	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
Axial M12 Connector		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
	4-pole, grey, P.V.C.	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
Radial M12 Connector		7 m	CS-A2-02-G-07	95A251245
		10 m	CS-A2-02-G-10	95A251260
	/ male DIID	2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
	4-pole, shielded, black, P.V.C.	3 m	CV-A1-22-B-03	95ACC1480
Axial M12 Connector		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		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