S10 series

Basic line of standard tubular M18 metal IP69K photoelectric sensors

- Base optic functions available
- IP69K protection
- AISI-316L stainless steel versions
- Ideal for pharmaceutical and food industries
- Standard 3 wire output configuration



S50 series

Extended range of standard 'One for All' photoelectric tubular M18 sensors

- All optic functions and Laser versions
- M18 flat plastic with universal fixing
- Available in M18 metal housing
- Axial or radial optics, cable or connector
- Standard 4 wire NO-NC NPN or PNP output



S51 series

Cost-effective basic line of standard M18 tubular photoelectric sensors

- Selection of universal optic functions
- The best performances at the best price
- Flat plastic or metal M18 housing
- Axial or radial, cable or conn. versions
- Standard 3 wire and dark/light inputs



NEW PERFORMANCES

The new S10 series of photoelectric sensors in tubular M18 metal housing is ideal for the more critical applications in the pharmaceutical or food industries. The IP69K mechanical protection quarantees resistance against washing with water jets reaching 80°C temperature and 100 bar pressure. Moreover, for a better resistance against more aggressive chemical agents and detergents, AISI-316L stainless steel versions are available with excellent resistance against acid corrosion. The S10 series includes adjustable 10, 35 or 60 cm proximities and 14 mm fixed focus, 4 m retroreflex, 3 m polarised retroreflex and 1 m for transparents, 18 m through beam. The M12 connections requires only 3 wires for power supply and NPN or PNP output.

NEW PERFORMANCES

The S50 series offers all the optic functions with the best performances in the standard M18 housing, ranging from the universal also with Laser class 1 emission, to the most advanced as foreground and/or background suppression. contrast. luminescence or distance sensors with analogue output. All models are available in the innovative flat plastic housing with universal fixing, with M18 nuts and M3 screws, or the more traditional cylindrical metal housing. Axial or radial cable or M12 optics. connection with 4 wire standard configuration and NO-NC NPN or PNP antivalent outputs are available. The S50 series is the 'One for All' solution for industrial automation.

NEW PERFORMANCES

The S51 series represents the most cost-effective solution for optic detection in industrial automation. The reduction, guaranteed by the automated production and economy of scale, does not compromise the performances that are the best for all basic optic functions. The diffuse proximity has a fixed 10 cm distance or adjustable reaching 40 cm. The retroreflex reaches 4 m or 3 m in the polarised version. The through beam couple offers an operating distance reaching 18 m. All models are available both in a flat plastic housing or cylindrical metal housing, with either axial or radial optics, with cable or M12 connection and NPN or PNP output.

S15 series Tubular photoelectric sensors

- Small housing of only 40 mm
- Cable output
- No sensitivity adjustment trimmer
- IP69K mechanical protection



NEW SERIES

The main characteristic of the new M18 tubular S15 sensors is the housing length of only 40 mm. The S15 series is supplied without the sensitivity adjustment trimmer to ease and speed installation. Cable or pigtail versions are available. This feature reduces drastically the possibility of allowing the operator to modify the sensor's performances and guaranteeing major reliability and productivity. The main optic functions used in the industrial market are available, polarised retroreflex. non-polarised retroreflex, diffuse proximity and through beam. These sensors are ideal for the most critical applications with harsh environmental conditions thanks to the IP69K mechanical protection.

S40/S41 series

Extended range of miniature European style photoelectric sensors

- Cost-effective trimmer universal models
- High-performance models with teach-in
- Background suppression and Laser RRX
- Polarised retroreflex for transparents
- 4 wire NO/NC output or Remote



NEW PERFORMANCES

The S40 series and costeffective S41 basic line represent the most complete offer of miniature photoelectric sensors with standard European market dimensions and fixing. Different models are available including 6 m through beam. 3 m polarised retroreflex, also with 6 m Laser emission, 0.7 m retroreflex for transparents, 35 cm fixed focus proximity and 15 cm Laser versions, 10 cm background suppression and 6 cm Laser versions for more precise detection. The S40 series presents NO output with Remote input for models with teach-in setting, whereas the S41 cost-effective line has NO-NC antivalent output for models with trimmer adjustment. All versions have NPN or PNP output with cable or M8 connection.

S8 series

Advanced line of miniature photoelectric sensors

- Compact dimensions (14x42x25 mm)
- 10 kHz switching frequency
- Extremely focussed spot, under 1 mm (Laser vers.)
- Very high resolutions
- Coaxial versions



NEW SERIES

The new S8 series of compact sensors offers excellent performances, detection usually associated with sensors that have larger dimensions and a higher price. The series offers Laser models with coaxial polarised retroreflex for the detection of transparent objects, biaxial retroreflex, background suppression, diffuse proximity optic functions as well as contrast sensors with RGB emission. The Laser versions present extremely focussed spot inferior to 1 mm and switching frequencies that are amongst the highest on the market reaching 10kHz. The retroreflex models supply great reliability and plant productivity thanks to an additional ALARM dirtv output for lenses. Connector M8 or M12 'pig-tail' versions are available.

S3Z series

Basic line of miniature Far East style photoelectric sensors

- 50-250 mm background suppression
- 0.7 m proximity, 15 cm with narrow heam
- 4 m polarised retroreflex
- 15 m through beam
- Standard 3 wire output configuration

S7 series

Fibre optic amplifiers in a compact format for DIN rail

- High-resolution models with display
- 12 bit resolution and 50 µs response
- Trimmer or teach-in versions
- Wide range of accessory fibre optics
- 4 wire NO/NC output or Remote input

S60 series

Extended photoelectric sensor range in the compact 50x50 'One for All' format

- Universal and application optic
- Laser class 1 versions for long distances
- Polarised retroreflex for transparents
- Contrast and UV luminescence sensors
- Standard 4 wire NO-NC NPN or PNP



NEW MODELS

The high operating distances and cost effective price, make the S3Z series a reference in the miniature format with dimensions and standard fixing affirmed on the market, in particular in the Far East. Different models are available: 15 m through beam, 4 m polarised retroreflex, 70 cm diffuse proximity and narrow beam for between 50 and 150 mm. Moreover, a 5 to 25 cm background suppression with model multi-turn mechanical trimmer setting is available. Versions with NPN or PNP output, with dark or light operating mode and with cable or M8 connection are foreseen. The plastic housing is completely overprinted, guaranteeing maximum mechanical protection also in presence of frequent washing.

NEW MODELS

The S7 sensors represent the ideal solution for the mounting of different units on DIN rails allowing to displace the various fibre optic detection points in different machine positions, also in limited spaces or in presence of mechanical constraints or high temperatures. Models with only 50 µs response time and 4-digit display indication are available for applications requiring high-precision and speed detection of small objects or minimum colour or grey-scale contrasts. Standard 500 µs and 10 bit models are ideal for applications with higher operating distances. Sensor setting is easy and rapid thanks to *EASYtouch*™ system trimmer adjustment in more cost-effective models.



NEW PERFORMANCES

The S60 series, in the compact 50x50 housing, only 15 mm wide, offers the most advanced optic functions, together with the universal ones for presence detection, available also with Laser class 1. The different models include polarised retroreflex with coaxial optics for the detection of reflective and transparent objects, foreground and background suppression, white light contrast sensors for the detection of coloured marks. UV emission luminescence sensor and the distance sensor with analogue output. Versions with cable or twoposition rotatable connector are available, with NPN or PNP standard output.

S62 series

High-performance background suppression and polarised retroreflex

- Sensors with LED or Laser emission
- Background suppr. from 3 cm to 2 m
- Polarised retroreflex up to 20 m
- Distance sensor 50 to 150 mm
- NPN/PNP output NO-NC configuration



NEW SERIES

The S62 series offers the maximum performances in the main optic detection functions. The background suppression models reach a 3-30 cm range with visible red LED emission, or 6-60, 6-120 and 20-200 cm with infrared LED emission. polarised retroreflex The models with visible red LED emission present a very long operating distance reaching 10 m with high immunity against reflection received from shiny objects. Versions with visible red Laser emission available with both 3-15 or 5-35 cm background suppression and polarised retroreflex up 22 m and distance measurement 50-150 mm. The sensors characterised by a very small light spot and a low response time that guarantee excellent detection repeatability.

S90 series

Extended range of compact photoelectric sensors in metal housing

- Background suppression and polarised retroreflex
- Laser class 1 versions for long distances
- Contrast and UV lumin, sensors
- High mechanical protection degree
- Standard 4 wire NO-NC NPN or PNP output



NEW PERFORMANCES

The S90 series, developed in the sturdy compact 41x49x15 mm metal housing, offers all the application and universal optic functions, available also with Laser class 1 emission. The series includes polarised retroreflex with coaxial optics for the detection of reflective or transparent objects, foreground and background suppression, contrast sensor with white light emission for register mark detection, luminescence sensor IJV emission for fluorescent mark detection. Versions with NPN or PNP output are available with standard M12 connector rotatable in 4 positions.

S2Z series

New line of Maxi photoelectric sensors ideal for critical applications

- Base optic functions
- IP67 mechanical protection
- Timing functions (ONE-SHOT, ON / OFF Delay)
- Connection block with spring clamps to ease cabling



NEW SERIES

The new S2Z series offers 4 models with base optic functions: 50 m through beam, 7 m polarised retroreflex, 1 m diffused proximity and 2 m background suppression. Versions with continuous 10 a 30Vdc and alternate 24...240 Vac / 12...240 Vdc free-voltage, available with timing versions, adjustable from 0.1 to 5 seconds. The outputs can have a SPDT relay contact or transistor with double NPN/PNP open collector solution. The connection block facilitates connections and simplifies installation. The sturdy plastic housing guarantees excellent resistance to particularly harsh working environments.

		Tubular		
	SERIES		S5	S10
CES	Through beam	I→I	012 m	018 m
OPERATING DISTANCES	Retroreflex (on R2 reflector)	I	0.14 m	0.14 m
ATING	Polarised retroreflex (on R2 reflector)	121	0.13 m	0.13 m
OPER	Retroreflex for transparents (on R2 reflector)	IZE	0.10.8 m	0.10.8 m
	Diffuse proximity	IZI	110 cm 135 cm 060 cm	110 cm 135 cm 060 cm
	Fixed focus proximity	KI	15 mm	14 mm
	Background suppression			
	Foreground suppression			
	Distance sensor			
	Through beam with fibre optic		085 mm	
	Diffuse proximity with fibre optic	~==#	022 mm	
TA.	Power supply	Vdc Vac Vac/dc	1030 (L) C 15264	1030 (L) (X) II3
TECHNICAL DATA	Output	PNP NPN NPN/PNP relay (SCR) other	• • • (•)	•
	Connection	cable connector pig-tail	•	•
	Approximate dimensions (mm)		M18 x 55/68	M18 x 55/67
	Housing material		ABS	NI plated brass AISI-316L stainless steel
	Mechanical protection		IP67	IP69K





S15
020 m
0.14 m
0.13 m
110 cm 135 cm
1230 🕦 🕻
•
•
• M18 x 40
ABS
IP69K

Tubular



	SERIES		S50	S51
NCES	Through beam	I→I	025 m 060 m	020 m
OPERATING DISTANCES	Retroreflex (on R2 reflector)	I≢	0.14 m	0.14 m
ATING	Polarised retroreflex (on R2 reflector)	ISE	0.14 m 0.116 m	0.13 m
OPER/	Retroreflex for transparents (on R2 reflector)	1#	0.11.3 m	
	Diffuse proximity	I≢I	010 cm 040 cm 070 cm 035 cm	010 cm 145 cm
	Fixed focus proximity	KI	10 cm	
	Background suppression	IZIX	510 cm	
	Foreground suppression		410 cm	
	Distance sensor		510 cm	
	Through beam with fibre optic		0100 mm	
	Diffuse proximity with fibre optic	~□≠	030 mm	
₹	Power supply	Vdc Vac Vac/dc	1030 🖫 🗲 😥 II3	1030 🕸 🖸
TECHNICAL DATA	Output	PNP NPN NPN/PNP relay (SCR) other	•	:
TECF	Connection	cable connector terminal block	010 V • •	
	Approximate dimensions (mm)	John Mills Stoom	M18 x 55/68	M18 x 55/68
	Housing material		PBT NI plated brass	PBT NI plated brass
	Mechanical protection		IP67	IP67







SDS	SL5
	060 m 🛕 cl.1
	0.0312 m 🛕 cl.1
	035 cm 🛕 cl.1
210 cm 412 cm	
1030 🕦 🕑	1030 🕦 🕻
•	•
•	
M18 x 100 (SDS5) M18 x 80 (SDS10)	M18 x 66
ABS (SDS5) NI plated brass (SDS10)	ABS
IP67	IP67

	Miniature and fi	ber optic	P	
	SERIES		SM <i>all</i>	S40
NCES	Through beam	l→l	02 m	0.16 m
OPERATING DISTANCES	Retroreflex (on R2 reflector)	I≢	5150 cm	0.13 m
ATING	Polarised retroreflex (on R2 reflector)	[2]	10100 cm	0.12.5 m 0.16 m
OPER	Retroreflex for transparents (on R2 reflector)	1#		0.10.7 m
	Diffuse proximity	I≢I		0.530 cm 415 cm
	Fixed focus proximity	KI	315 mm 320 mm 330 mm 350 mm	
	Background suppression	I≠IX		1.510 cm 26 cm
	Foreground suppression			
	Distance sensor			
	Through beam with fibre optic	**************************************		
	Diffuse proximity with fibre optic	·□≠		
DATA	Power supply	Vdc Vac Vac/dc	1030 🕑	1030 🕨 🕻
TECHNICAL DA	Output	PNP NPN NPN/PNP relay other	•	•
	Connection	cable connector terminal block	•	:
	Approximate dimensions (mm)		8 x 23 x 12	12 x 32 x 20
	Housing material		polycarbonate	ABS
	Mechanical protection		IP67	IP67





S41
0.16 m
0.12.5 m
0.10.7 m
0.235 cm
110 mm
1030 🖫 ℃
:
•
12 x 32 x 20
ABS
IP67

	Miniature and fi	ber optic	W	
	SERIES		S3Z	S 3
CES	Through beam	I → I	015 m	05 m
OPERATING DISTANCES	Retroreflex (on R2 reflector)	I		0.12.5 m
ATING	Polarised retroreflex (on R2 reflector)	IZE	0.054 m	0.12 m
OPER	Retroreflex for transparents (on R2 reflector)	1 ≠₽		0.20.8 m
	Diffuse proximity	IZI	070 cm 515 cm	010 cm 050 cm
	Fixed focus proximity	KI		12 mm
	Background suppression		525 cm	
	Foreground suppression			
	Distance sensor			
	Through beam with fibre optic	**************************************		0110 mm
	Diffuse proximity with fibre optic	~□ ≠		033 mm
4	Power supply	Vdc Vac	1030 🕨 🕑	1030 🕨 🗷
VICAL DATA	Output	Vac/dc PNP NPN NPN/PNP relay	:	•
TECHNICAL	Connection	other cable connector pig-tail	:	:
	Approximate dimensions (mm)		11 x 31 x 19	13 x 42 x 29
	Housing material		PC/PBT	ABS
	Mechanical protection		IP67	IP66

ODATALOGICM





S8	S7
010 m 🛕 ^{cl.2}	
0.15 m	
0.00.	
00.8 m	
050 cm	
•	
220 cm 🛕 cl.2	
530 cm	
	0300 mm
	0150 mm
	075 mm 0100 mm
	050 mm
	025 mm
1230 🕡 🕻	1224 🔑 🕐
•	
•	•
•	•
•	
14 x 42 x 25	10 x 40 x 65
ABS	ABS
IP67	IP65
	IP50 (trimmer vers.)

		Compact		
	SERIES		S 6	S60
CES	Through beam	I→I	020 m	020 m 060 m
OISTAN	Retroreflex (on R2 reflector)	I	0.16 m	
OPERATING DISTANCES	Polarised retroreflex (on R2 reflector)	IZE	0.15 m	03.2 m (coaxial) 0.16.5 m 0.120 m
)PERA	Retroreflex for transparents (on R2 reflector)	17	0.11 m	01.7 m (coaxial)
O	Diffuse proximity	IZI	190 cm 5200 cm	1100 cm 5200 cm 060 cm
	Fixed focus proximity	KI		5.1.50
	Background suppression		0.110 cm 325 cm 1050 cm	720 cm 510 cm
	Foreground suppression		520 cm	720 cm
	Distance sensor			515 cm
	Through beam with fibre optic			
	Diffuse proximity with fibre optic	~= <u></u>		
4	Power supply	Vdc Vac Vac/dc	1030 (L) C	1030 🕦 🕻
AL DAT	Output	PNP NPN NPN/PNP relay	•	•
TECHNICAL DATA	Connection	other cable connector	•	010 V •
"	Approximate dimensions (mm)	terminal block	18 x 50 x 50	15 x 50 x 50
	Housing material		ABS	ABS
18	Mechanical protection		IP65	IP67

ODATALOGICM





S62	S90
	020 m 060 m
0.58.5 m 0.320 m	03.2 m (coaxial) 0.16.5 m 0.120 m
	1100 cm 5200 cm 060 cm
30300 mm 60600 mm 601200 mm 2002000 mm 30150 mm 50350 mm	720 cm 510 cm
	720 cm
80 ± 40 mm 🔼 cl. 2	
1030 🕦 🕏	1030 🖫 🕑
:	•
:	•
18 x 50 x 50	15 x 50 x 41
ABS	zama
IP67	IP67

			Maxi		
		SERIES		S2	S2Z
C L	ICES	Through beam	I→I	010 m 050 m	050 m
	OPERATING DISTANCES	Retroreflex (on R2 reflector)	I₹	0.15 m	
ĺ		Polarised retroreflex (on R2 reflector)	I 2₽	0.13 m	0.27 m
	OPER/	Retroreflex for transparents (on R2 reflector)	1#		
·	•	Diffuse proximity	IZI	190 cm 1200 cm	01 m
		Fixed focus proximity	KI		
		Background suppression			20200 cm
		Foreground suppression			
		Distance sensor			
		Through beam with fibre optic			
		Diffuse proximity with fibre optic	°□≠		
	_	Power supply	Vdc Vac	1030	1224 🔑 🗨
Ì	TECHNICAL DATA	Output	Vac/dc PNP	15264	12240
	ÄL		NPN NPN/PNP	•	•
			relay other	•	•
(T	Connection	cable		
i	F		connector terminal block	•	•
		Approximate dimensions (mm)		26 x 58 x 85	25 x 67.5 x 90
		Housing material		РВТ	PBT
		Mechanical protection		IP66	IP67

♦DATALOGIC_™





S20	S30
0.150 m	050 m
0.18 m	0.110 m
0.12 m	0.052 m
	00.440
1050 cm	20110 cm
1030 🖫 🗸	1030 🕜
	17264
•	•
	:
26 x 65 x 55	• 32 x 85 x 73
ABS	policarbonato
IP66	IP67