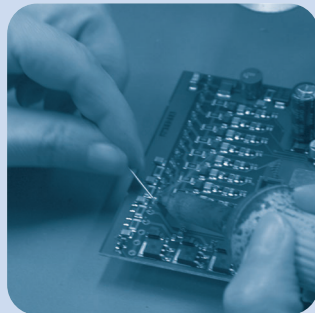




# Micro Detectors



**CATALOGO BREVE**  
*SHORT FORM CATALOGUE*

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**CATALOGO BREVE**

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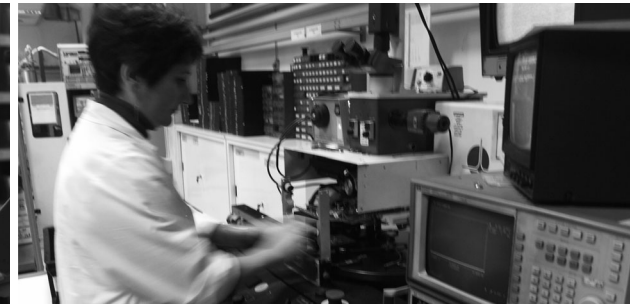
Micro Detectors





PRESENTAZIONE AZIENDALE  
COMPANY PROFILE





L'evoluzione del nostro marchio:  
da più di trent'anni  
siamo nelle vostre macchine.

*The evolution of our brand:  
for more than thirty years  
we've been in your machines.*



1971



1978



1996



2000



Micro Detectors

2001

### M.D. MICRO DETECTORS, LEADER NEI SENSORI CILINDRICI.

**M.D. Micro Detectors S.p.A.** è presente dal 1971 sul mercato nazionale e internazionale nello sviluppo e produzione di sensori. I prodotti, fino al 2001 con marchio DIELL e oggi a marchio MD, sono da sempre sinonimo di qualità ed affidabilità nel settore. La presenza di M.D. Micro Detectors sul mercato è capillare, attraverso filiali commerciali e una propria rete distributiva presente in tutto il mondo.

### LA SFIDA DI M.D. MICRO DETECTORS: ANTICIPARE, INNOVARE, PROGREDIRE CON I MIGLIORI STANDARD CHiesti DAI NOSTRI CLIENTI.

Da 2 a 3 anni di garanzia su tutti i prodotti: la risposta di M.D. alle vostre esigenze di **affidabilità**.  
Dalla progettazione al prodotto finito: il controllo di M.D. Micro Detectors sull'intero processo produttivo offre la migliore garanzia di **qualità**.  
Test di produzione sul 100% dei sensori realizzati: considerando ogni prodotto unico, rispondiamo alle vostre aspettative di massima **funzionalità**.

Dalla ricerca e sviluppo alla realizzazione:  
un processo a 360° sempre all'avanguardia.

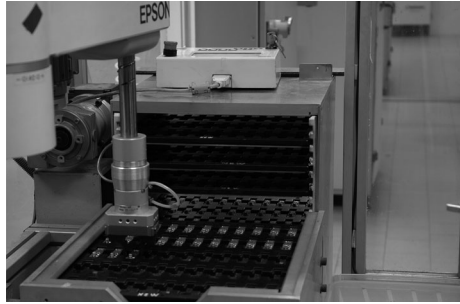
### M.D. MICRO DETECTORS, LEADER IN CYLINDRICAL SENSORS PRODUCTION.

**M.D. Micro Detectors S.p.A.** is present on the national and international market of sensors development and production since 1971. The products, sold up to 2001 with the DIELL Logo and now marked MD, have always been synonymous of quality and reliability. The presence on the market of M.D. Micro Detectors is diffused through sales subsidiaries and its own worldwide distribution network.

### M.D. MICRO DETECTORS CHALLENGE: ANTICIPATE, INNOVATE, PROGRESS THROUGH THE BEST STANDARDS REQUIRED BY OUR CUSTOMERS.

Minimum 2 years warranty on the whole product range is **M.D. Micro Detectors** answer to your reliability needs. From the design planning to the finished product: the constant control of M.D. Micro Detectors on the whole production process offers the best quality assurance. Production tests on the 100% of the sensors manufactured: by considering each product as unique, we can satisfy your expectations of highest efficiency.

From research & development to realization:  
a 360° process always in the forefront of technique.



**La gamma DI M.D. MICRO DETECTORS:**  
 sensori FOTOELETTRICI e a FIBRA  
 OTTICA, sensori DI PROSSIMITÀ  
 INDUTTIVI, CAPACITIVI, DI AREA, DI  
 COLORE e DI SUPERFICIE, ULTRASONI-  
 CI, DISPOSITIVI DI SICUREZZA, CON-  
 NETTORI.

La gamma di prodotti a catalogo permette di soddi-  
 sfare tutte le esigenze di rilevazione dell'automazio-  
 ne industriale.

**M.D. MICRO DETECTORS range:**  
 PHOTOELECTRIC and OPTICAL FIBRE  
 sensors, INDUCTIVE and CAPACITIVE  
 proximity sensors, COLOUR area,  
 surface and ULTRASONIC sensors  
 SAFETY DEVICES, CONNECTORS  
 CABLES.

The wide range of products on catalogue allows to  
 satisfy all detection needs of the industrial  
 automation.

**Tra I SETTORI IN CUI SIAMO  
 presenti:**

- automotive <
- elettrodomestico <
- imballaggio <
- ceramico <
- lavorazione del legno <
- movimentazione e logistica <
- movimentazione terra e costruzioni <
- processo e trattamento alimentari,  
 tabacco, bevande <
- tessile, pelletteria e calzaturiero <
- distribuzione automatica <



**Some of THE FIELDS WHERE WE  
 are present:**

- > automotive
- > household appliances
- > packaging
- > ceramics
- > wood industry
- > material handling and logistic
- > ground handling and building
- > tobacco, food and drinks  
 process and handling
- > textile, leather and shoes industry
- > vending machines

**TECNOLOGIE SENSORISTICHE avanzate**  
 ADVANCED SENSORS TECHNOLOGIES










CATALOGO BREVE  
SHORT FORM CATALOGUE



## INDUCTIVES



Micro Detectors

							
SERIE / SERIES	PA	PB	PC	PD	PP	PH	PE
Dimensioni <i>Dimensions</i>	Ø 3 mm	M4	Ø 4 mm	M5	5x5x25 mm	Ø 6,5 mm	M8
Schermato standard <i>Standard shielded</i>	0,6 mm	0,6 mm	0,8 mm	0,8 mm	0,8 mm	1,5 mm	1,5 mm
Non Schermato standard <i>Standard unshielded</i>	---	---	---	---	---	---	---
Schermato lunga distanza <i>Long distance shielded</i>	1 mm	1 mm	1,5 mm	1,5 mm	1,5 mm	---	---
Non Schermato lunga distanza <i>Long distance unshielded</i>	---	---	---	---	---	---	---
Corpo standard <i>Standard body</i>	---	---	---	---	---	---	---
Corpo Corto <i>Short body</i>	---	---	---	---	---	---	---
Corpo miniaturizzato <i>Miniaturized body</i>	•	•	•	•	•	•	•
Alimentazione Vcc / Vdc <i>Supply voltage Vca / Vac</i>	•	•	•	•	•	•	•
Tipo di uscita <i>Output type</i>	•	•	•	•	•	•	•
NPN - NO	•	•	•	•	•	•	•
NPN - NC	•	•	•	•	•	•	•
PNP - NO	•	•	•	•	•	•	•
PNP - NC	•	•	•	•	•	•	•
PNP - NO+NC	---	---	---	---	---	---	---
NPN - NO+NC	---	---	---	---	---	---	---
DECOUT	---	---	---	---	---	---	---
SCR	---	---	---	---	---	---	---
0...10V	---	---	---	---	---	---	---
4...20mA	---	---	---	---	---	---	---
Limiti di temperatura <i>Temperature range</i>	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C
Grado di protezione <i>Protection degree</i>	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Materiale corpo <i>Housing material</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>
Materiale faccia attiva <i>Sensing face material</i>	PBT	PBT	PBT	PBT	PBT	PBT	PBT
Uscita <i>Output</i>	•	•	•	•	•	•	•
Cavo <i>Cable</i>	•	•	•	•	•	•	•
Connettore M8 <i>M8 plug</i>	---	---	•	•	•	•	•
Connettore M12 <i>M12 plug</i>	---	---	---	---	---	---	---
ATEX	---	---	---	---	---	---	---





Micro Detectors









SERIE / SERIES	IL	AH	AE	AM - PM3	PMS	PMW	AK - PK3
Dimensioni <i>Dimensions</i>	10x16x28 mm	Ø 6,5 mm	M8	M12	M12	M12	M18
Schermato standard <i>Standard shielded</i>	---	1,5 mm	1,5 mm	2 mm	2 mm	2 mm	5 mm
Non Schermato standard <i>Standard unshielded</i>	---	2,5 mm	2,5 mm	4 mm	4 mm	4 mm	8 mm
Schermato lunga distanza <i>Long distance shielded</i>	3 mm	2 mm	2 mm	4 mm	---	---	8 mm
Non Schermato lunga distanza <i>Long distance unshielded</i>	6 mm	4 mm	4 mm	8 mm	---	---	12 mm
Corpo standard <i>Standard body</i>	•	•	•	•	•	•	•
Corpo Corto <i>Short body</i>	---	•	•	•	---	---	•
Corpo miniaturizzato <i>Miniaturized body</i>	---	---	---	---	---	---	---
Alimentazione Vcc / Vdc <i>Supply voltage</i>	•	•	•	•	•	•	•
Vca / Vac	---	---	---	---	---	---	---
Tipo di uscita NPN - NO <i>Output type</i>	•	•	•	•	---	---	•
NPN - NC	•	•	•	•	---	---	•
PNP - NO	•	•	•	•	---	---	•
PNP - NC	•	•	•	•	---	---	•
PNP - NO+NC	---	---	---	---	•	•	---
NPN - NO+NC	---	---	---	---	•	•	---
DECOUT	---	---	---	•	---	---	•
SCR	---	---	---	---	---	---	---
0...10V	---	---	•	•	---	---	•
4...20mA	---	---	---	•	---	---	•
Limiti di temperatura <i>Temperature range</i>	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C
Grado di protezione <i>Protection degree</i>	IP67	IP67	IP67	IP67	IP67/68	IP67/68	IP67
Materiale corpo <i>Housing material</i>	PA	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>
Materiale faccia attiva <i>Sensing face material</i>	PA	PBT	PBT	PBT	PPS	PPS	PBT
Uscita Cavo <i>Output</i>	•	•	•	•	---	---	•
Cable	•	•	•	•	---	---	•
Connettore M8 <i>M8 plug</i>	•	•	•	•	---	---	---
Connettore M12 <i>M12 plug</i>	---	•	•	•	•	•	•
ATEX	---	•	•	•	•	•	•



## INDUCTIVES



Micro Detectors

							
SERIE / SERIES		PKS	PKW	AT	VM	VK	VT
Dimensioni <i>Dimensions</i>		M18	M18	M30	M12	M18	M30
Schermato standard <i>Standard shielded</i>		5 mm	5 mm	10 mm	2 mm	5 mm	10 mm
Non Schermato standard <i>Standard unshielded</i>		8 mm	8 mm	15 mm	4 mm	8 mm	15 mm
Schermato lunga distanza <i>Long distance shielded</i>		---	---	15 mm	---	---	---
Non Schermato lunga distanza <i>Long distance unshielded</i>		---	---	20 mm	---	---	---
Corpo standard <i>Standard body</i>		•	•	•	•	•	•
Corpo Corto <i>Short body</i>		---	---	---	---	---	---
Corpo miniaturizzato <i>Miniaturized body</i>		---	---	---	---	---	---
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•	---	---	---
	Vca / Vac	---	---	---	•	•	•
Tipo di uscita <i>Output type</i>	NPN - NO	---	---	•	---	---	---
	NPN - NC	---	---	•	---	---	---
	PNP - NO	---	---	•	---	---	---
	PNP - NC	---	---	•	---	---	---
	PNP - NO+NC	•	•	---	---	---	---
	NPN - NO+NC	•	•	---	---	---	---
	DECOUT	---	---	---	---	---	---
	SCR	---	---	---	•	•	•
0...10V		---	---	---	---	---	---
4...20mA		---	---	---	---	---	---
Limiti di temperatura <i>Temperature range</i>		-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C
Grado di protezione <i>Protection degree</i>		IP67/68	IP67/68	IP67	IP67	IP67	IP67
Materiale corpo <i>Housing material</i>		Ottone nichelato <i>Nickel plated brass</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>	Ottone nichelato <i>Nickel plated brass</i>
Materiale faccia attiva <i>Sensing face material</i>		PSU	PSU	PBT	PBT	PBT	PBT
Uscita <i>Output</i>	Cavo <i>Cable</i>	---	---	•	•	•	•
	Connettore M8 <i>M8 plug</i>	---	---	---	---	---	---
	Connettore M12 <i>M12 plug</i>	•	•	•	•	•	•
ATEX		•	•	•	---	---	---



Micro Detectors

Sensori per applicazioni  
alimentari  
Sensors for Food and  
Beverage applications



SERIE / SERIES

PFM

PFK

Dimensioni <i>Dimensions</i>		M12	M18
Schermato standard <i>Standard shielded</i>		2 mm	5 mm
Non Schermato standard <i>Standard unshielded</i>		4 mm	8 mm
Schermato lunga distanza <i>Long distance shielded</i>		4 mm	8 mm
Non Schermato lunga distanza <i>Long distance unshielded</i>		8 mm	12 mm
Corpo standard <i>Standard body</i>		•	•
Corpo Corto <i>Short body</i>		---	---
Corpo miniaturizzato <i>Miniaturized body</i>		---	---
Alimentazione Vcc / Vdc <i>Supply voltage</i>		•	•
Vca / Vac		---	---
Tipo di uscita NPN - NO <i>Output type</i>		•	•
NPN - NC		---	---
PNP - NO		•	•
PNP - NC		---	---
PNP - NO+NC		•	•
NPN - NO+NC		•	•
DECOUT		---	---
SCR		---	---
0...10V		---	---
4...20mA		---	---
Limiti di temperatura <i>Temperature range</i>		-40°...+80°C	-40°...+80°C
Grado di protezione <i>Protection degree</i>		IP68 / IP69K	IP68 / IP69K
Materiale corpo <i>Housing material</i>		Acciaio inox AISI316L <i>Stainless steel AISI316L</i>	Acciaio inox AISI316L <i>Stainless steel AISI316L</i>
Materiale faccia attiva <i>Sensing face material</i>		PPS	PPS
Uscita Cavo <i>Output</i>		---	---
Cable		---	---
Connettore M8 <i>M8 plug</i>		---	---
Connettore M12 <i>M12 plug</i>		•	•
ATEX		•	•



Micro Detectors



SERIE / SERIES

CE

CT

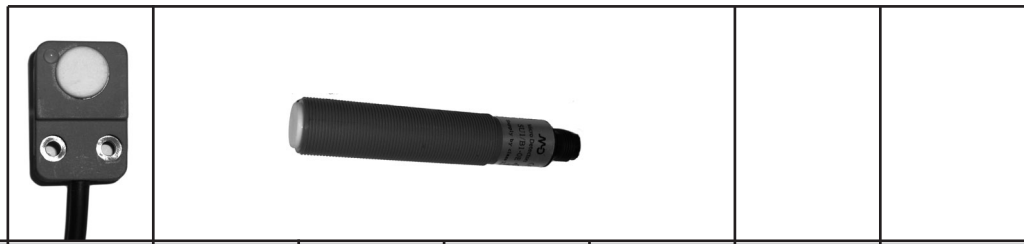
Dimensioni <i>Dimensions</i>		Ø 20 mm	M30
Schermato standard <i>Standard shielded</i>		10 mm	---
Non Schermato standard <i>Standard unshielded</i>		---	---
Schermato lunga distanza <i>Long distance shielded</i>		---	15 mm
Non Schermato lunga distanza <i>Long distance unshielded</i>		---	20 mm
Corpo standard <i>Standard body</i>		•	•
Corpo Corto <i>Short body</i>		---	---
Corpo miniaturizzato <i>Miniaturized body</i>		---	---
Alimentazione Vcc / Vdc <i>Supply voltage</i>		•	•
Vca / Vac		---	---
Tipo di uscita NPN - NO <i>Output type</i>		---	•
PNP - NO		---	•
PNP - NC		---	•
PNP - NC		---	•
PNP - NO+NC		•	---
NPN - NO+NC		•	---
DECOUT		---	---
SCR		---	---
0...10V		---	---
4...20mA		---	---
Limiti di temperatura <i>Temperature range</i>		-25°...+70°C	-25°...+70°C
Grado di protezione <i>Protection degree</i>		IP65	IP65
Materiale corpo <i>Housing material</i>		Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>
Materiale faccia attiva <i>Sensing face material</i>		LCP	PBT
Uscita Cavo <i>Output</i>		•	•
Cable		---	---
Connettore M8 <i>M8 plug</i>		---	---
Connettore M12 <i>M12 plug</i>		•	•
ATEX		---	---



## ULTRASONICS



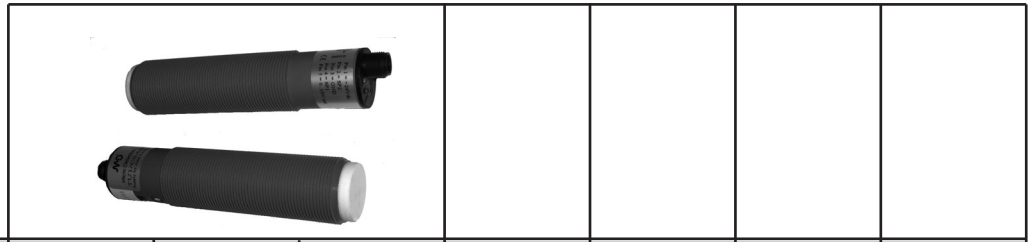
Micro Detectors



SERIE / SERIES	UHZ	SU0	SU1	SU2	SU3		
Dimensioni <i>Dimensions</i>	20x30x12	M18	M18	M18	M18		
Diffusione Diretta <i>Direct diffuse</i>	---	60...300 mm	100...600 mm	200...1500 mm	---		
A Riflessione <i>Retroreflective</i>	---	---	---	---	400...1500 mm		
Barriera <i>Through-beam</i>	0...300 mm	---	---	---	---		
Alimentazione <i>Supply voltage</i>	Vcc / Vdc Vca / Vac	• ---	• ---	• ---	• ---		
Tipo di uscita <i>Output type</i>	PNP - NO PNP - NC NPN - NO NPN - NC 0...10V 4...20mA 2 x PNP - NO/NC + 1 x 0...10V 2 x PNP - NO/NC + 1 x 4...20mA	• --- • --- • • --- --- ---	• --- • --- • • --- ---	• --- • --- • • --- ---	• --- • --- • • --- ---		
Limiti di temperatura <i>Temperature range</i>	-15°...+70°C	-15°...+70°C	-15°...+70°C	-15°...+70°C	-15°...+70°C		
Grado di protezione <i>Protection degree</i>	IP67	IP67	IP67	IP67	IP67		
Materiale corpo <i>Housing material</i>	PBTP	PBTP	PBTP	PBTP	PBTP		
Materiale faccia attiva <i>Sensing face material</i>	Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>		
Uscita <i>Output</i>	Cavo <i>Cable</i> Connettore M12 <i>M12 plug</i> Connettore volante M12 <i>M12 pigtail plug</i>	• --- •	• --- •	• --- •	• --- •		



Micro Detectors










SERIE / SERIES		TU1	TU2	TU3				
Dimensioni <i>Dimensions</i>		M30	M30	M30				
Diffusione Diretta <i>Direct diffuse</i>		300...2500 mm	250...2000 mm	350...3500 mm				
A Riflessione <i>Retroreflective</i>		---	---	---				
Barriera <i>Through-beam</i>		---	---	---				
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•				
	Vca / Vac	---	---	---				
Tipo di uscita <i>Output type</i>	PNP - NO	•	---	---				
	PNP - NC	---	---	---				
	NPN - NO	---	---	---				
	NPN - NC	---	---	---				
	0...10V	•	---	---				
	4...20mA	•	---	---				
	2 x PNP - NO/NC + 1 x 0...10V	---	•	•				
2 x PNP - NO/NC + 1 x 4...20mA	---	•	•					
Limiti di temperatura <i>Temperature range</i>		-15°...+70°C	-15°...+70°C	-15°...+70°C				
Grado di protezione <i>Protection degree</i>		IP67	IP67	IP67				
Materiale corpo <i>Housing material</i>		PBTP	PBTP	PBTP				
Materiale faccia attiva <i>Sensing face material</i>		Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>	Ceramica <i>Ceramics</i>				
Uscita <i>Output</i>	Cavo <i>Cable</i>	---	---	---				
	Connettore M12 <i>M12 plug</i>	•	•	•				
	Connettore volante M12 <i>M12 pigtail plug</i>	---	---	---				



## PHOTOELECTRIC SENSORS



Micro Detectors

							
SERIE / SERIES	H8	HE	DM	SS/SP	FA	FAL	MS/MP
Dimensioni <i>Dimensions</i>	M8	M8	M12	M18	M18	M18	M18
Soppressione di sfondo <i>Background suppression</i>	---	---	---	50 mm 100 mm	30...130 mm	---	50 mm 100 mm
Diffusione corta distanza <i>Diffuse short distance</i>	---	---	100 mm 200 mm	50 mm, 100 mm 200 mm	50 mm, 100 mm 200 mm	400 mm 300 mm - 90°	100 mm 200 mm
Diffusione lunga distanza <i>Diffuse long distance</i>	---	---	300 mm	400 mm 800 mm	400 mm, 1 m	---	400 mm
Catarifrangente <i>Retroreflective</i>	---	---	---	4 m	4 m	---	4 m
Polarizzata <i>Polarized</i>	---	---	2 m	3 m	3 m	30 m	3 m
Catarifrangente per trasparenti <i>Retroreflective for transparents</i>	---	---	---	---	100...1000 mm	---	---
Barriera <i>Through-beam</i>	0...80 mm	0...1 m	4 m	14 m	20 m (16 m - 90°)	50 m	16 m 32 m
Laser	---	---	---	---	---	•	---
Ottica assiale <i>Axial optic</i>	•	•	•	•	•	•	•
Ottica radiale <i>Right angle optic</i>	---	---	---	•	•	•	•
Alimentazione Vcc / Vdc <i>Supply voltage</i>	•	•	•	•	•	•	•
Vca / Vac	---	---	---	---	---	---	---
Tipo di uscita NPN - NO <i>Output type</i>	---	•	---	•	•	---	---
NPN - NC	---	•	---	•	•	---	---
PNP - NO	•	•	---	•	•	---	---
PNP - NC	---	•	---	•	•	---	---
NPN - NO/NC	---	---	•	•	•	•	---
PNP - NO/NC	---	---	•	•	•	•	---
PNP - NO+NC	---	---	---	---	•	•	---
NPN - NO+NC	---	---	---	---	•	•	---
DECOUT	---	---	---	---	---	---	•
Relè - Relay	---	---	---	---	---	---	---
SCR	---	---	---	---	---	---	---
Limiti di temperatura <i>Temperature range</i>	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C
Grado di protezione <i>Protection degree</i>	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Materiale corpo <i>Housing material</i>	Acciaio inox <i>Stainless steel</i>	Acciaio inox <i>Stainless steel</i>	Ottone nichelato <i>Nickel plated brass</i>	Plastico/Plastic Metallico/Metal	Plastico/Plastic Metallico/Metal	Plastico/Plastic Metallico/Metal	Plastico/Plastic Metallico/Metal
Materiale ottica <i>Sensing face material</i>	PMMA	PMMA	PMMA	PMMA	PMMA	Vetro Glass	PMMA
Uscita Cavo <i>Output</i>	•	•	•	•	•	•	•
Connettore M8 <i>M8 plug</i>	---	•	---	---	---	---	---
Connettore M12 <i>M12 plug</i>	---	---	•	•	•	•	•
ATEX	---	---	•	•	•	•	---



Micro Detectors







SERIE / SERIES	SA	MV/MQ	FT	DG	PS	FE	FG
Dimensioni <i>Dimensions</i>	M18	M18	M30	Ø 10 mm	26x15x49 mm	11x20x31 mm	20x43x65 mm
Soppressione di sfondo <i>Background suppression</i>	---	50 mm 100 mm	---	---	---	15...500 mm	90...310 mm 110...600 mm
Diffusione corta distanza <i>Diffuse short distance</i>	150 mm	100 mm 200 mm	---	---	100 mm 200 mm	---	---
Diffusione lunga distanza <i>Diffuse long distance</i>	400 mm	400 mm	---	---	---	800 mm	---
Catarifrangente <i>Retroreflective</i>	6 m	4 m	---	---	2 m	---	---
Polarizzata <i>Polarized</i>	3 m	3 m	---	---	---	4 m	9 m
Catarifrangente per trasparenti <i>Retroreflective for transparent</i>	---	---	---	---	---	---	---
Barriera <i>Through-beam</i>	---	16 m 32 m	60 m	2 m	4 m	12 m	20 m
Laser	---	---	---	---	---	---	---
Ottica assiale <i>Axial optic</i>	•	•	•	•	---	---	•
Ottica radiale <i>Right angle optic</i>	---	•	---	---	•	•	•
Alimentazione Vcc / Vdc <i>Supply voltage Vca / Vac</i>	•	---	•	•	•	•	•
Tipo di uscita <i>Output type</i>	---	---	---	•	•	---	---
	---	---	---	•	•	---	---
	---	---	---	•	•	---	---
	•	---	•	---	---	•	•
	•	---	•	---	---	•	•
	---	---	•	---	---	---	---
	---	---	•	---	---	---	---
	---	---	---	---	---	---	---
	---	•	---	---	---	---	---
Limiti di temperatura <i>Temperature range</i>	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+55°C	-25°...+55°C
Grado di protezione <i>Protection degree</i>	IP65	IP67	IP67	IP67	IP65	IP67	IP67
Materiale corpo <i>Housing material</i>	Plastico/Plastic Metallico/Metal	Plastico Plastic	Metallico/Metal	Plastico Plastic	Plastico Plastic	Plastico Plastic	Plastico Plastic
Materiale ottica <i>Sensing face material</i>	PMMA	PMMA	PMMA	PC	PMMA	PC	PC
Uscita <i>Output</i>	•	•	•	•	•	•	•
Cavo <i>Cable</i>	•	•	•	•	•	•	•
Connettore M8 <i>M8 plug</i>	---	---	---	---	---	•	---
Connettore M12 <i>M12 plug</i>	•	•	•	---	•	---	•
ATEX	---	---	---	---	---	---	---



## PHOTOELECTRIC SENSORS



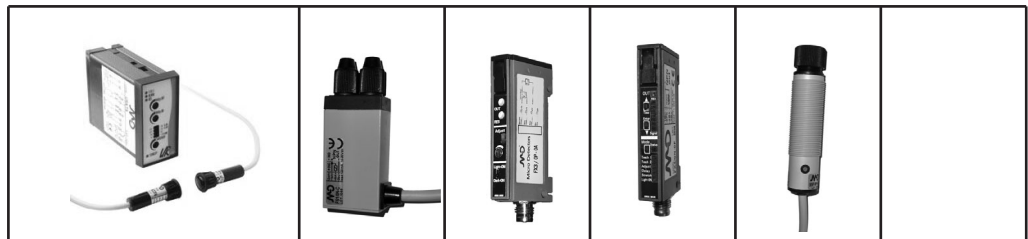
Micro Detectors

							Sensori per applicazioni alimentari Sensors for Food and Beverage applications 	
	SERIE / SERIES	QX	BS	BV	RX		FF	
Dimensioni <i>Dimensions</i>	15x23x40 mm	16x37x70 mm	16x37x70 mm	26x50x80 mm			M18	
Soppressione di sfondo <i>Background suppression</i>	---	---	---	50...300 mm 250...1000 mm				
Diffusione corta distanza <i>Diffuse short distance</i>	---	100 mm 200 mm	100 mm 200 mm	---			100 mm	
Diffusione lunga distanza <i>Diffuse long distance</i>	300 mm	400 mm 1600 mm	400 mm 1600 mm	1 m 2 m			400 mm 800 mm	
Catarifrangente <i>Retroreflective</i>	4 m	8 m	8 m	12 m			---	
Polarizzata <i>Polarized</i>	2,5 m	2,5 m	2,5 m	6 m			4 m	
Catarifrangente per trasparenti <i>Retroreflective for transparent</i>	---	---	---	---			1 m	
Barriera <i>Through-beam</i>	8 m	---	---	16 m 32 m			20 m	
Laser	---	---	---	---			---	
Ottica assiale <i>Axial optic</i>	•	---	---	•			•	
Ottica radiale <i>Right angle optic</i>	•	•	•	---			---	
Alimentazione Vcc / Vdc <i>Supply voltage</i> Vca / Vac	• ---	• ---	---	• •			• ---	
Tipo di uscita <i>Output type</i>								
NPN/PNP - NO	•	---	---	---			---	
NPN/PNP - NC	•	---	---	---			---	
PNP - NO	•	---	---	---			---	
PNP - NC	•	---	---	---			---	
NPN - NO/NC	---	---	---	---			•	
PNP - NO/NC	---	---	---	---			•	
PNP - NO+NC	---	---	---	---			•	
NPN - NO+NC	---	---	---	---			•	
DECOUT	---	•	---	•			---	
Relè - Relay	---	---	---	•			---	
SCR	---	---	•	---			---	
Limiti di temperatura <i>Temperature range</i>	-25°...+70°C	-25°...+70°C	-25°...+70°C	-25°...+70°C			-25°...+85°C	
Grado di protezione <i>Protection degree</i>	IP65	IP65	IP65	IP65			IP68 / IP69K	
Materiale corpo <i>Housing material</i>	ABS	ABS	ABS	PC			Acciaio Inox AISI316L Stainless steel AISI316L	
Materiale ottica <i>Sensing face material</i>	Acrilico Acrylic	PMMA	PMMA	PMMA			PMMA	
Uscita <i>Output</i>								
Cavo <i>Cable</i>	•	•	•	---			---	
Connettore M8 <i>M8 plug</i>	•	---	---	---			---	
Connettore M12 <i>M12 plug</i>	•	•	•	•			•	
ATEX	---	---	---	---			•	





Micro Detectors





SERIE / SERIES	UR	DG	FS1	FX3	FX4	SSF	
Dimensioni <i>Dimensions</i>	32x67x90 mm	Ø 10 mm M12	15x26x66 mm	10x31x60 mm	10x31x60 mm	M18	
Amplificatore con uscita a relè <i>Relay output amplifier</i>	•	---	---	---	---	---	
Amplificatore per fibre plastiche <i>Plastic fibres amplifier</i>	---	---	•	•	•	•	
Amplificatore per fibre in vetro <i>Glass fibres amplifier</i>	---	---	•	•	•	•	
Amplificatore per barra DIN <i>DIN rail amplifier</i>	---	---	---	•	•	---	
Temporizzazioni uscita <i>Timer functions</i>	•	---	---	---	•	---	
Teach in	---	---	---	---	•	•	
Portata di lavoro <i>Sensing distance</i>	---	fino a 75 m <i>up to 75 m</i>	a seconda della fibra usata <i>depending on the fibre used</i>				
Alimentazione Vcc / Vdc <i>Supply voltage</i>	•	---	•	•	•	•	
Vca / Vac	•	---	---	---	---	---	
Tipo di uscita Relè / Relay <i>Output type</i>	•	---	---	---	---	---	
PNP - NO/NC	---	---	•	•	•	•	
NPN - NO/NC	---	---	•	•	•	•	
Limiti di temperatura <i>Temperature range</i>	-10°...+50°C	-20°...+60°C	-25°...+70°C	-25°...+55°C	-25°...+55°C	-25°...+70°C	
Grado di protezione <i>Protection degree</i>	IP20	IP67	IP65	IP64	IP64	IP67	
Materiale corpo <i>Housing material</i>	Noly 90 V-0	Plastico/Plastic Metallico/Metal	PA	PBTP	PBTP	Plastico/Plastic Metallico/Metal	
Materiale ottica <i>Sensing face material</i>	---	PC - Vetro PC - Glass	fibra in plastica, fibra in vetro <i>plastic fibres, glass fibres</i>				
Uscita Cavo <i>Output</i>	---	•	•	•	•	•	
Connettore M12 <i>M12 plug</i>	---	---	•	---	---	•	
Connettore M8 <i>M8 plug</i>	---	---	---	•	•	---	
Undecal	•	---	---	---	---	---	



## special sensors



Micro Detectors

							
SERIE / SERIES	LTB	LDLU	LDLV	LC5	FC3		
Dimensioni <i>Dimensions</i>	M18	M18	M30	26x61x115 mm	26x75x90 mm		
Letture di tacche <i>Contrast scanner</i>	•	---	---	---	---		
Letture di luminescenza <i>Luminiscent scanner</i>	---	•	•	---	---		
Sensore di colore <i>Colour sensor</i>	---	---	---	•	---		
Sensore di finitura superficiale <i>Gloss sensor</i>	---	---	---	---	---		
Sensore per trasmissione dati <i>Data transmission</i>	---	---	---	---	---		
Forcella per guidabordo <i>Slot sensor for edge detection</i>	---	---	---	---	•		
Portata di lavoro <i>Sensing distance</i>	12 mm (STF12) 25 mm (STF25)	12 mm (STF12) 25 mm (STF25)	30 mm	18 mm (FPCF) 50 mm (FPCP)	h=38 mm		
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•	•		
	Vca / Vac	---	---	---	•		
Tipo di uscita <i>Output type</i>	NPN/PNP - NO/NC	---	---	•	---		
	20mA TTY	---	---	---	---		
	RS232 - RS422	---	---	---	---		
	4x NPN/PNP - NO/NC	---	---	•	---		
	NPN - NO/NC	•	•	•	---		
	PNP - NO/NC	•	•	•	---		
	PNP - NO+NC	---	---	---	---		
	NPN - NO+NC	---	---	---	---		
	DECOUT	---	---	---	---		
	SCR	---	---	---	•		
Limiti di temperatura <i>Temperature range</i>	-5°...+55°C	-5°...+55°C	-5°...+55°C	0°...+40°C	-25°...+50°C		
Grado di protezione <i>Protection degree</i>	IP65	IP65	IP65	IP67	IP64		
Materiale corpo <i>Housing material</i>	PBT	PBT	Ottone nichelato <i>Nickel plated brass</i>	PC	PCB		
Materiale ottica <i>Sensing face material</i>	Plexiglass	Plexiglass	Vetro <i>Glass</i>	---	PCB		
Uscita <i>Output</i>	Cavo	•	•	---	---		
	Cable	•	•	•	•		
	Connettore M12 <i>M12 plug</i>	•	•	•	•		



Micro Detectors



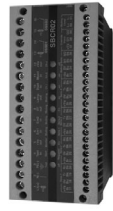

SERIE / SERIES		BX04	BX10	BX80	AX100	AX500
Dimensioni <i>Dimensions</i>		20x44x120 mm	20x44x120 mm	20x44x120 mm	Ø50x247 mm	Ø70 x 428...828 mm
Portata di lavoro <i>Sensing distance</i>		0,3...2 m	0,3...2 m	fino a 2 m <i>up to 2 m</i>	1 m 2 m	2 m 4 m
Altezza area sensibile <i>Controlled area height</i>		90 mm	90 mm	70 mm	150 mm	da 350 mm a 750 mm <i>from 350 mm to 750 mm</i>
Oggetto minimo rilevabile <i>Minimum detectable object</i>		fino a 15 mm <i>up to 15 mm</i>	fino a 5 mm <i>up to 5 mm</i>	fino a 2 mm <i>up to 2 mm</i>	fino a 4 mm <i>up to 4 mm</i>	Ø55 mm
Numero ottiche <i>Optics number</i>		4	10	12	16	da 8 a 16 <i>from 8 to 16</i>
Passo ottiche <i>Optics step</i>		30 mm	10 mm	6 mm	10 mm	50 mm
Versione ATEX <i>ATEX model</i>		•	•	•	---	---
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•	•	•
	Vca / Vac	---	---	---	---	---
Tipo di uscita <i>Output type</i>	NPN + PNP - NO	•	•	---	---	---
	NPN + PNP - NC	•	•	---	---	---
	NPN - NO/NC	---	---	•	•	•
	PNP - NO/NC	---	---	•	•	•
	4...20mA	---	---	•	•	•
	0...20mA	---	---	•	---	---
	0...10V	---	---	---	•	•
Parallele <i>Parallel</i>	---	---	---	---	•	
Limiti di temperatura <i>Temperature range</i>		0°...+50°C	0°...+50°C	-25°...+50°C	0°...+50°C	0°...+50°C
Grado di protezione <i>Protection degree</i>		IP67	IP67	IP67	IP65	IP65
Materiale corpo <i>Housing material</i>		Valox	Valox	Valox	PMMA	PMMA
Materiale ottica <i>Sensing face material</i>		PC Vetro/Glass	PC Vetro/Glass	PC Vetro/Glass	PMMA	PMMA
Uscita <i>Output</i>	Cavo <i>Cable</i>	•	•	•	•	•
	Connettore M12 <i>M12 plug</i>	•	•	•	•	---
ATEX		•	•	•	---	---



## safety sensors



Micro Detectors

					
SERIE / SERIES	SBCR02	SBCR03		SH	TH
Dimensioni <i>Dimensions</i>	73x152x118 mm	84x76x110 mm		M18	M30
Portata di lavoro <i>Sensing distance</i>	---	---		10 m	30 m 60 m
Altezza area sensibile <i>Controlled area height</i>	---	---		---	---
Risoluzione <i>Resolution</i>	---	---		---	---
Passo ottiche <i>Optics step</i>	---	---		---	---
Numero ottiche <i>Optics number</i>	da 1 a 4 <i>from 1 to 4</i>	fino a 6 <i>up to 6</i>		---	---
Funzioni disponibili <i>Available functions</i>	Riavvio automatico <i>Automatic restart</i>	•	•	collegata a SBCR02/SBCR03 <i>connected to SBCR02/SBCR03</i>	collegata a SBCR02/SBCR03 <i>connected to SBCR02/SBCR03</i>
	Riavvio manuale <i>Manual restart</i>	•	•		
	EDM	•	•		
	Muting	•	•		
	Doppio Muting <i>Double Muting</i>	---	•		
Categoria <i>Category</i>	2	2		2	2
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•	•
	Vca / Vac	•	---	---	---
Tipo di uscita <i>Output type</i>	2 relè / relay	•	---	---	---
	2 PNP	---	•	---	---
Limiti di temperatura <i>Temperature range</i>	0°...+55°C	-20°...+60°C		-25°...+60°C	-25°...+60°C
Grado di protezione <i>Protection degree</i>	IP20	IP20		IP67	IP67
Materiale corpo <i>Housing material</i>	PC	ABS UL V0		Plastico/Plastic Metallico/Metal	Metallico Metal
Materiale ottica <i>Sensing face material</i>	---	---		PMMA	Vetro Glass
Uscita <i>Output</i>	Cavo <i>Cable</i>	---	---	---	---
	Connettore M12 <i>M12 plug</i>	---	---	•	•
	Morsetti <i>Terminals</i>	•	•	---	---



Micro Detectors



SERIE / SERIES		SBA	SBH	SBM
Dimensioni <i>Dimensions</i>		cubica <i>cubic</i>	cubica <i>cubic</i>	cubica <i>cubic</i>
Portata di lavoro <i>Sensing distance</i>		10 m 40 m 60 m	0...6 m 2,5...19 m	0...2,5 m (14 mm) 1,5 m (14 mm) 0...6 m (30 mm)
Altezza area sensibile <i>Controlled area height</i>		da 500 mm a 900 mm <i>from 500 mm to 900 mm</i>	da 150 mm a 1800 mm <i>from 150 mm to 1800 mm</i>	da 150 mm a 1200 mm <i>from 150 mm to 1200 mm</i>
Risoluzione <i>Resolution</i>		corpo <i>body</i>	mano <i>hand</i>	mano/hand <i>dito/finger</i>
Passo ottiche <i>Optics step</i>		300 mm (2 ottiche/optics) 400 mm (3 ottiche/optics) 300 mm (4 ottiche/optics)	30 mm	14 mm 30 mm
Numero ottiche <i>Optics number</i>		2 3 4	a seconda dell'altezza <i>depending on the height</i>	a seconda dell'altezza <i>depending on the height</i>
Funzioni disponibili <i>Available functions</i>	Riavvio automatico <i>Automatic restart</i>	collegata a SBCR02/SBCR03 <i>connected to SBCR02/SBCR03</i>	•	•
	Riavvio manuale <i>Manual restart</i>		•	•
	EDM		•	•
	Muting		collegata a SBCR03 <i>connected to SBCR03</i>	---
	Doppio Muting <i>Double Muting</i>		collegata a SBCR03 <i>connected to SBCR03</i>	---
Categoria <i>Category</i>		2	2	4
Alimentazione <i>Supply voltage</i>	Vcc / Vdc	•	•	•
	Vca / Vac	---	---	---
Tipo di uscita <i>Output type</i>	2 relè / relay	---	---	---
	2 PNP	---	•	•
Limiti di temperatura <i>Temperature range</i>		0°...+55°C	0°...+55°C	0°...+55°C
Grado di protezione <i>Protection degree</i>		IP65	IP65	IP65
Materiale corpo <i>Housing material</i>		Metallico <i>Metal</i>	Metallico <i>Metal</i>	Metallico <i>Metal</i>
Materiale ottica <i>Sensing face material</i>		PC	PC	PC
Uscita <i>Output</i>	Cavo <i>Cable</i>	•	---	---
	Connettore M12 <i>M12 plug</i>	---	•	•
	Morsetti <i>Terminals</i>	•	---	---



QUADERNO DEI DISTRIBUTORI  
DISTRIBUTORS NOTEBOOK



## CABLE EXIT PROXIMITY SENSORS

Diametro Diameter	Portata Distance	Corpo Housing	Montaggio Installation	Distanza Distance	NPN/NO	PNP/NO	PNP/NC	NPN/NC	
Ø 6,5	Standard	Standard	Sch. / Flush	1,5 mm	AH1/AN-1A	AH1/AP-1A	AH1/CP-1A	AH1/CN-1A	
			Non sch. / Not flush	2,5 mm	AH1/AN-2A	AH1/AP-2A	AH1/CP-2A	AH1/CN-2A	
		Corto / Short	Sch. / Flush	1,5 mm	AH6/AN-1A	AH6/AP-1A	AH6/CP-1A	AH6/CN-1A	
			Non sch. / Not flush	2,5 mm	AH6/AN-2A	AH6/AP-2A	AH6/CP-2A	AH6/CN-2A	
	Lunga dist. Long dist.	Standard	Sch. / Flush	2 mm	AH1/AN-3A	AH1/AP-3A	AH1/CP-3A	AH1/CN-3A	
			Non sch. / Not flush	4 mm	AH1/AN-4A	AH1/AP-4A	AH1/CP-4A	AH1/CN-4A	
		Corto / Short	Sch. / Flush	2 mm	AH6/AN-3A	AH6/AP-3A	AH6/CP-3A	AH6/CN-3A	
			Non sch. / Not flush	4 mm	AH6/AN-4A	AH6/AP-4A	AH6/CP-4A	AH6/CN-4A	
M8	Standard	Standard	Sch. / Flush	1,5 mm	AE1/AN-1A	AE1/AP-1A	AE1/CP-1A	AE1/CN-1A	
			Non sch. / Not flush	2,5 mm	AE1/AN-2A	AE1/AP-2A	AE1/CP-2A	AE1/CN-2A	
		Corto / Short	Sch. / Flush	1,5 mm	AE6/AN-1A	AE6/AP-1A	AE6/CP-1A	AE6/CN-1A	
			Non sch. / Not flush	2,5 mm	AE6/AN-2A	AE6/AP-2A	AE6/CP-2A	AE6/CN-2A	
	Lunga dist. Long dist.	Standard	Sch. / Flush	2 mm	AE1/AN-3A	AE1/AP-3A	AE1/CP-3A	AE1/CN-3A	
			Non sch. / Not flush	4 mm	AE1/AN-4A	AE1/AP-4A	AE1/CP-4A	AE1/CN-4A	
		Corto / Short	Sch. / Flush	2 mm	AE6/AN-3A	AE6/AP-3A	AE6/CP-3A	AE6/CN-3A	
			Non sch. / Not flush	4 mm	AE6/AN-4A	AE6/AP-4A	AE6/CP-4A	AE6/CN-4A	
M12	Standard	Standard	Sch. / Flush	2 mm	AM1/AN-1A	AM1/AP-1A	AM1/CP-1A	AM1/CN-1A	
			Non sch. / Not flush	4 mm	AM1/AN-2A	AM1/AP-2A	AM1/CP-2A	AM1/CN-2A	
		Corto / Short	Sch. / Flush	2 mm	AM6/AN-1A	AM6/AP-1A	AM6/CP-1A	AM6/CN-1A	
			Non sch. / Not flush	4 mm	AM6/AN-2A	AM6/AP-2A	AM6/CP-2A	AM6/CN-2A	
	Lunga dist. Long dist.	Standard	Sch. / Flush	4 mm	AM1/AN-3A	AM1/AP-3A	AM1/CP-3A	AM1/CN-3A	
			Non sch. / Not flush	8 mm	AM1/AN-4A	AM1/AP-4A	AM1/CP-4A	AM1/CN-4A	
		Corto / Short	Sch. / Flush	4 mm	AM6/AN-3A	AM6/AP-3A	AM6/CP-3A	AM6/CN-3A	
			Non sch. / Not flush	8 mm	AM6/AN-4A	AM6/AP-4A	AM6/CP-4A	AM6/CN-4A	
	Standard	2 fili / 2 cables	Sch. / Flush	2 mm	AM1/A0-1A		AM1/C0-1A		
			Non sch. / Not flush	4 mm	AM1/A0-2A		AM1/C0-2A		
		Lunga dist. Long dist.	2 fili / 2 cables	Sch. / Flush	4 mm	AM1/A0-3A		AM1/C0-3A	
				Non sch. / Not flush	8 mm	AM1/A0-4A		AM1/C0-4A	
M18	Standard	Standard	Sch. / Flush	5 mm	AK1/AN-1A	AK1/AP-1A	AK1/CP-1A	AK1/CN-1A	
			Non sch. / Not flush	8 mm	AK1/AN-2A	AK1/AP-2A	AK1/CP-2A	AK1/CN-2A	
	Lunga dist. Long dist.	Standard	Sch. / Flush	8 mm	AK1/AN-3A	AK1/AP-3A	AK1/CP-3A	AK1/CN-3A	
			Non sch. / Not flush	12 mm	AK1/AN-4A	AK1/AP-4A	AK1/CP-4A	AK1/CN-4A	
	Standard	2 fili / 2 cables	Sch. / Flush	5 mm	AK1/A0-1A		AK1/C0-1A		
			Non sch. / Not flush	8 mm	AK1/A0-2A		AK1/C0-2A		
	Lunga dist. Long dist.	2 fili / 2 cables	Sch. / Flush	8 mm	AK1/A0-3A		AK1/C0-3A		
			Non sch. / Not flush	12 mm	AK1/A0-4A		AK1/C0-4A		
M30	Standard	Standard	Sch. / Flush	10 mm	AT1/AN-1A	AT1/AP-1A	AT1/CP-1A	AT1/CN-1A	
			Non sch. / Not flush	15 mm	AT1/AN-2A	AT1/AP-2A	AT1/CP-2A	AT1/CN-2A	
	Lunga dist. Long dist.	Standard	Sch. / Flush	15 mm	AT1/AN-3A	AT1/AP-3A	AT1/CP-3A	AT1/CN-3A	
			Non sch. / Not flush	20 mm	AT1/AN-4A	AT1/AP-4A	AT1/CP-4A	AT1/CN-4A	
	Standard	2 fili / 2 cables	Sch. / Flush	10 mm	AT1/A0-1A		AT1/C0-1A		
			Non sch. / Not flush	15 mm	AT1/A0-2A		AT1/C0-2A		
	Lunga dist. Long dist.	2 fili / 2 cables	Sch. / Flush	15 mm	AT1/A0-3A		AT1/C0-3A		
			Non sch. / Not flush	20 mm	AT1/A0-4A		AT1/C0-4A		

## PLUG EXIT PROXIMITY SENSORS

Diametro Diameter	Conn. Plug	Portata Distance	Corpo Housing	Montaggio Installation	Distanza Distance	NPN/NO	PNP/NO	PNP/NC	NPN/NC	
Ø6,5	M8	Standard	Standard	Sch. / Flush	1,5 mm	AH1/AN-1F	AH1/AP-1F	AH1/CP-1F	AH1/CN-1F	
	M12					AH1/AN-1H	AH1/AP-1H	AH1/CP-1H	AH1/CN-1H	
	M8			Non sch. / Not flush	2,5 mm	AH1/AN-2F	AH1/AP-2F	AH1/CP-2F	AH1/CN-2F	
	M12					AH1/AN-2H	AH1/AP-2H	AH1/CP-2H	AH1/CN-2H	
	M8	Lunga dist. Long dist.	Corto / Short	Standard	Sch. / Flush	1,5 mm	AH6/AN-1F	AH6/AP-1F	AH6/CP-1F	AH6/CN-1F
					Non sch. / Not flush	2,5 mm	AH6/AN-2F	AH6/AP-2F	AH6/CP-2F	AH6/CN-2F
			Corto / Short	Standard	Sch. / Flush	2 mm	AH1/AN-3F	AH1/AP-3F	AH1/CP-3F	AH1/CN-3F
					Non sch. / Not flush	4 mm	AH1/AN-4F	AH1/AP-4F	AH1/CP-4F	AH1/CN-4F
				Corto / Short	Sch. / Flush	2 mm	AH6/AN-3F	AH6/AP-3F	AH6/CP-3A	AH6/CN-3F
					Non sch. / Not flush	4 mm	AH6/AN-4F	AH6/AP-4F	AH6/CP-4F	AH6/CN-4F

M8	M8	Standard	Standard	Sch. / Flush	1,5 mm	AE1/AN-1F	AE1/AP-1F	AE1/CP-1F	AE1/CN-1F	
	M12					AE1/AN-1H	AE1/AP-1H	AE1/CP-1H	AE1/CN-1H	
	M8			Non sch. / Not flush	2,5 mm	AE1/AN-2F	AE1/AP-2F	AE1/CP-2F	AE1/CN-2F	
	M12					AE1/AN-2H	AE1/AP-2H	AE1/CP-2H	AE1/CN-2H	
	M8	Lunga dist. Long dist.	Corto / Short	Standard	Sch. / Flush	1,5 mm	AE6/AN-1F	AE6/AP-1F	AE6/CP-1F	AE6/CN-1F
					Non sch. / Not flush	2,5 mm	AE6/AN-2F	AE6/AP-2F	AE6/CP-2F	AE6/CN-2F
			Corto / Short	Standard	Sch. / Flush	2 mm	AE1/AN-3F	AE1/AP-3F	AE1/CP-3F	AE1/CN-3F
					Non sch. / Not flush	4 mm	AE1/AN-4F	AE1/AP-4F	AE1/CP-4F	AE1/CN-4F
				Corto / Short	Sch. / Flush	2 mm	AE6/AN-3F	AE6/AP-3F	AE6/CP-3A	AE6/CN-3F
					Non sch. / Not flush	4 mm	AE6/AN-4F	AE6/AP-4F	AE6/CP-4F	AE6/CN-4F

M12	M12	Standard	Standard	Sch. / Flush	2 mm	AM1/AN-1H	AM1/AP-1H	AM1/CP-1H	AM1/CN-1H	
				Non sch. / Not flush	4 mm	AM1/AN-2H	AM1/AP-2H	AM1/CP-2H	AM1/CN-2H	
				Corto / Short	Sch. / Flush	2 mm	AM6/AN-1H	AM6/AP-1H	AM6/CP-1H	AM6/CN-1H
					Non sch. / Not flush	4 mm	AM6/AN-2H	AM6/AP-2H	AM6/CP-2H	AM6/CN-2H
			Lunga dist. Long dist.	Standard	Sch. / Flush	4 mm	AM1/AN-3H	AM1/AP-3H	AM1/CP-3H	AM1/CN-3H
					Non sch. / Not flush	8 mm	AM1/AN-4H	AM1/AP-4H	AM1/CP-4H	AM1/CN-4H
				Corto / Short	Sch. / Flush	4 mm	AM6/AN-3H	AM6/AP-3H	AM6/CP-3H	AM6/CN-3H
					Non sch. / Not flush	8 mm	AM6/AN-4H	AM6/AP-4H	AM6/CP-4H	AM6/CN-4H
		Lunga dist. Long dist.	Standard	2 fili	Sch. / Flush	2 mm	AM1/A0-1H		AM1/C0-1H	
				2 cables	Non sch. / Not flush	4 mm	AM1/A0-2H		AM1/C0-2H	
			Lunga dist. Long dist.	2 fili	Sch. / Flush	4 mm	AM1/A0-3H		AM1/C0-3H	
					2 cables	Non sch. / Not flush	8 mm	AM1/A0-4H		AM1/C0-4H

M18	M12	Standard	Standard	Sch. / Flush	5 mm	AK1/AN-1H	AK1/AP-1H	AK1/CP-1H	AK1/CN-1H
				Non sch. / Not flush	8 mm	AK1/AN-2H	AK1/AP-2H	AK1/CP-2H	AK1/CN-2H
		Lunga dist. Long dist.	Standard	Sch. / Flush	8 mm	AK1/AN-3H	AK1/AP-3H	AK1/CP-3H	AK1/CN-3H
				Non sch. / Not flush	12 mm	AK1/AN-4H	AK1/AP-4H	AK1/CP-4H	AK1/CN-4H
		Lunga dist. Long dist.	Standard	2 fili 2 cables	Sch. / Flush	5 mm	AK1/A0-1H		AK1/C0-1H
					Non sch. / Not flush	8 mm	AK1/A0-2H		AK1/C0-2H
			Lunga dist. Long dist.	2 fili 2 cables	Sch. / Flush	8 mm	AK1/A0-3H		AK1/C0-3H
					Non sch. / Not flush	12 mm	AK1/A0-4A		AK1/C0-4H

M30	M12	Standard	Standard	Sch. / flush	10 mm	AT1/AN-1H	AT1/AP-1H	AT1/CP-1H	AT1/CN-1H		
				Non sch. / Not flush	15 mm	AT1/AN-2H	AT1/AP-2H	AT1/CP-2H	AT1/CN-2H		
				Lunga dist. Long dist.	Standard	Sch. / Flush	15 mm	AT1/AN-3H	AT1/AP-3H	AT1/CP-3H	AT1/CN-3H
						Non sch. / Not flush	20 mm	AT1/AN-4H	AT1/AP-4H	AT1/CP-4H	AT1/CN-4H
		Lunga dist. Long dist.	Standard	2 fili 2 cables	Sch. / Flush	10 mm	AT1/A0-1H		AT1/C0-1H		
					Non sch. / Not flush	15 mm	AT1/A0-2H		AT1/C0-2H		
			Lunga dist. Long dist.	2 fili 2 cables	Sch. / Flush	15 mm	AT1/A0-3H		AT1/C0-3H		
					Non sch. / Not flush	20 mm	AT1/A0-4H		AT1/C0-4H		



### SENSORI INDUTTIVI MINIATURIZZATI / MINIATURIZED INDUCTIVE SENSORS

Diametro Diameter	Montaggio Installation	Portata Distance	Conn. Plug	Distanza Distance	NPN/NO	NPN/NC	PNP/NC	PNP/NO
Ø3	Sch. / Flush	Standard	Cavo / Cable	0,6 mm	PA1/AN-1A	PA1/CN-1A	PA1/CP-1A	PA1/AP-1A
		Lunga dist. / Long dist.		1 mm	PA1/AN-3A	PA1/CN-3A	PA1/CP-3A	PA1/AP-3A
M4	Sch. / Flush	Standard	Cavo / Cable	0,6 mm	PB1/AN-1A	PB1/CN-1A	PB1/CP-1A	PB1/AP-1A
		Lunga dist. / Long dist.		1 mm	PB1/AN-3A	PB1/CN-3A	PB1/CP-3A	PB1/AP-3A
Ø4	Sch. / Flush	Standard	Cavo / Cable	0,8 mm	PC1/AN-1A	PC1/CN-1A	PC1/CP-1A	PC1/AP-1A
			M8	0,8 mm	PC1/AN-1F	PC1/CN-1F	PC1/CP-1F	PC1/AP-1F
		Lunga dist. / Long dist.	Cavo / Cable	1,5 mm	PC1/AN-3A	PC1/CN-3A	PC1/CP-3A	PC1/AP-3A
			M8	1,5 mm	PC1/AN-3F	PC1/CN-3F	PC1/CP-3F	PC1/AP-3F
M5	Sch. / Flush	Standard	Cavo / Cable	0,8 mm	PD1/AN-1A	PD1/CN-1A	PD1/CP-1A	PD1/AP-1A
			M8	0,8 mm	PD1/AN-1F	PD1/CN-1F	PD1/CP-1F	PD1/AP-1F
		Lunga dist. / Long dist.	Cavo / Cable	1,5 mm	PD1/AN-3A	PD1/CN-3A	PD1/CP-3A	PD1/AP-3A
			M8	1,5 mm	PD1/AN-3F	PD1/CN-3F	PD1/CP-3F	PD1/AP-3F
Ø6,5	Sch. / Flush	Standard	Cavo / Cable	1,5 mm	PH6/AN-1A	PH6/CN-1A	PH6/CP-1A	PH6/AP-1A
			M8	1,5 mm	PH6/AN-1F	PH6/CN-1F	PH6/CP-1F	PH6/AP-1F
M8	Sch. / Flush	Standard	Cavo / Cable	1,5 mm	PE6/AN-1A	PE6/CN-1A	PE6/CP-1A	PE6/AP-1A
			M8	1,5 mm	PE6/AN-1F	PE6/CN-1F	PE6/CP-1F	PE6/AP-1F

### SENSORI INDUTTIVI IN AC / AC INDUCTIVE SENSORS

Diametro Diameter	Montaggio Installation	Portata Distance	Cavo / Cable exit		Uscita M12 / M12 exit	
			NO	NC	NO	NC
M12	Sch. / Flush	2 mm	VM2/A0-1B	VM2/C0-1B	VM2/A0-1H	VM2/C0-1H
	Non sch. / Not flush	4 mm	VM2/A0-2B	VM2/C0-2B	VM2/A0-2H	VM2/C0-2H
M18	Sch. / Flush	5 mm	VK2/A0-1B	VK2/C0-1B	VK2/A0-1H	VK2/C0-1H
	Non sch. / Not flush	8 mm	VK2/A0-2B	VK2/C0-2B	VK2/A0-2H	VK2/C0-2H
M30	Sch. / Flush	10 mm	VT2/A0-1B	VT2/C0-1B	VT2/A0-1H	VT2/C0-1H
	Non sch. / Not flush	15 mm	VT2/A0-2B	VT2/C0-2B	VT2/A0-2H	VT2/C0-2H

### SENSORI INDUTTIVI DECOUT / DECOUT INDUCTIVE SENSORS

Diametro Diameter	Uscita Output	Conn. Plug	Montaggio Installation	Portata Distance	NPN / PNP - NO / NC
M12	DECOUT	Cavo / Cable	Sch. / Flush	2 mm	PM3/00-1A
			Non sch. / Not flush	4 mm	PM3/00-2A
		M12	Sch. / Flush	2 mm	PM3/00-1H
			Non sch. / Not flush	4 mm	PM3/00-2H
M18	DECOUT	Cavo / Cable	Sch. / Flush	5 mm	PK3/00-1A
			Non sch. / Not flush	8 mm	PK3/00-2A
		M12	Sch. / Flush	5 mm	PK3/00-1H
			Non sch. / Not flush	8 mm	PK3/00-2H

### SENSORI INDUTTIVI IP67/68 / IP67/68 INDUCTIVE SENSORS

Diametro Diameter	Corpo Housing	Montaggio Installation	Portata Distance	Conn. Plug	NPN NO + NC	PNP NO + NC
M12	Ottone / Nickel plated brass	Sch. / Flush	2 mm	M12	PMS/ON-1H	PMS/OP-1H
		Non sch. / Not flush	4 mm	M12	PMS/ON-2H	PMS/OP-2H
	Acciaio inox / Stainless steel	Sch. / Flush	2 mm	M12	PMW/ON-1H	PMW/OP-1H
		Non sch. / Not flush	4 mm	M12	PMW/ON-2H	PMW/OP-2H
M18	Ottone / Nickel plated brass	Sch. / Flush	5 mm	M12	PKS/ON-1H	PKS/OP-1H
		Non sch. / Not flush	8 mm	M12	PKS/ON-2H	PKS/OP-2H
	Acciaio inox / Stainless steel	Sch. / Flush	5 mm	M12	PKW/ON-1H	PKW/OP-1H
		Non sch. / Not flush	8 mm	M12	PKW/ON-2H	PKW/OP-2H

## ANALOGUE INDUCTIVE - ULTRASONIC SENSORS

### SENSORI INDUTTIVI ANALOGICI Analogue inductive sensors

Diametro Diameter	Lunghezza Housing	Montaggio Installation	Distanza Distance	Conn. Plug	Uscita / Output 0...10V	Uscita / Output 0...10V + 4...20mA
M8	Standard	Sch. / Flush	0...4 mm	Cavo / Cable	AE1/D1-7A	/
				M8	AE1/D1-7F	/
M12	Standard	Sch. / Flush	0...6 mm	Cavo / Cable	/	AM1/D2-5A
				M12	/	AM1/D2-5H
M18	Corto / Short	Sch. / Flush	0...10 mm	Cavo / Cable	/	AK6/D2-5A
				M12	/	AK6/D2-5H

### SENSORI AD ULTRASUONI ULTRASONIC SENSORS

Dimensione Dimension	Modello Model	Portata Distance	Uscita Exit	PNP - NO Trimmer	Uscita analogica Analogue output 0...10V	Uscita analogica Analogue output 4...20mA	2 x PNP - NO+ 1 x 0...10V Teach-in	2 x PNP - NO+ 1 x 4...20mA Teach-in
M18	Tasteggio diretto Diffuse reflection	60...300 mm	M12 volante M12 pig tail	SU0/B0-0V	/	/	/	/
			Cavo / Cable	/	SU0/B1-0A	SU0/B2-0A	/	/
		100...600 mm	M12 volante M12 pig tail	SU1/B0-0V	/	/	/	/
			Cavo / Cable	/	SU1/B1-0E	SU1/B2-0E	/	/
		200...1500 mm	M12 volante M12 pig tail	SU2/A0-0V	/	/	/	/
			Cavo / Cable	/	SU2/A1-0E	SU2/A2-0E	/	/
Riflessione Retroreflective	400...1500 mm*	M12 volante M12 pig tail	SU3/A0-0V	/	/	/	/	
M30	Tasteggio diretto Diffuse reflection	300...2500 mm	M12	TU1/C0-0E	TU1/C1-0E	TU1/C2-0E	/	/
		250...2000 mm	M12	/	/	/	TU2/A3-0E	TU2/A4-0E
		350...3500 mm	M12	/	/	/	TU3/C3-0E	TU3/C4-0E
30x20x15 mm	Barriera Through beam	0...300 mm**	Cavo / Cable	PNP - NO	PNP - NC	NPN - NO	NPN - NC	
				UHZ/AP-0A	UHZ/CP-0A	UHZ/AN-0A	UHZ/CN-0A	

\* distanza tra sensore e riflettore / distance between sensor and reflector

\*\* distanza tra proiettore e ricevitore / distance between emitter and receiver

## SENSORS FOR FOOD AND BEVERAGE APPLICATIONS

### SENSORI INDUTTIVI IP68 / IP69K - IP68 / IP69K INDUCTIVE SENSORS

Diametro Diameter	Montaggio Installation	Portata Distance	Uscita Out	Distanza Distance	NPN/NO	PNP - NO	NPN NO + NC	PNP NO + NC
M12	Schermato / Shielded	Standard	M12	2 mm	PFM1/AN-1H	PFM1/AP-1H	PFM1/BN-1H	PFM1/BP-1H
	Schermato / Shielded	Standard	M12	4 mm	PFM1/AN-2H	PFM1/AP-2H	PFM1/BN-2H	PFM1/BP-2H
	Schermato / Shielded	Lunga dist. / Long dist.	M12	4 mm	PFM1/AN-3H	PFM1/AP-3H	PFM1/BN-3H	PFM1/BP-3H
	Schermato / Shielded	Lunga dist. / Long dist.	M12	8 mm	PFM1/AN-4H	PFM1/AP-4H	PFM1/BN-4H	PFM1/BP-4H
M18	Schermato / Shielded	Standard	M12	5 mm	PFK1/AN-1H	PFK1/AP-1H	PFK1/BN-1H	PFK1/BP-1H
	Schermato / Shielded	Standard	M12	8 mm	PFK1/AN-2H	PFK1/AP-2H	PFK1/BN-2H	PFK1/BP-2H
	Schermato / Shielded	Lunga dist. / Long dist.	M12	8 mm	PFK1/AN-3H	PFK1/AP-3H	PFK1/BN-3H	PFK1/BP-3H
	Schermato / Shielded	Lunga dist. / Long dist.	M12	12 mm	PFK1/AN-4H	PFK1/AP-4H	PFK1/BN-4H	PFK1/BP-4H

### SENSORI FOTOELETTRICI M18 IP68 / IP69K / IP68 / IP69K M18 PHOTOELECTRIC SENSORS

Modelli Models	Corpo Housing	Regolazione Adjustment	Portata Distance	4 fili/wires NPN LO/DO	4 fili/wires PNP LO/DO	4 fili/wires NPN NO+NC	4 fili/wires PNP NO+NC
Diffusione diretta Direct diffuse	AISI 316L (DIN 1.4404)	Teach-in	100 mm	FFR3/ON-1E	FFR3/OP-1E	FFR3/BN-1E	FFR3/BP-1E
			400 mm	FFI7/ON-1E	FFI7/OP-1E	FFI7/BN-1E	FFI7/BP-1E
			800 mm	FFI8/ON-1E	FFI8/OP-1E	FFI8/BN-1E	FFI8/BP-1E
Polarizzata Polarised	AISI 316L (DIN 1.4404)	Teach-in	4 m	FFRN/ON-1E	FFRN/OP-1E	FFRN/BN-1E	FFRN/BP-1E
		No	4 m	FFRP/ON-1E	FFRP/OP-1E	FFRP/BN-1E	FFRP/BP-1E
Catarifrangente per trasparenti Retroreflector for transparent objects	AISI 316L (DIN 1.4404)	Teach-in	1 m	FFRL/ON-1E	FFRL/OP-1E	FFRL/BN-1E	FFRL/BP-1E
Ricevitore / Receiver	AISI 316L (DIN 1.4404)	No	20 m	FFIZ/ON-1E	FFIZ/OP-1E	FFIZ/BN-1E	FFIZ/BP-1E
				Senza / without CHECK		Con / with CHECK	
Emettitore / Emitter	AISI 316L (DIN 1.4404)	No	20 m	FFIH/00-1E		FFIH/X0-1E	

## FOTOCCELLULE CILINDRICHE M18

## CYLINDRIC PHOTOELECTRIC SENSORS M18

## FOTOCCELLULE CAVO CON OTTICA ASSIALE - SERIE SS

## CABLE EXIT PHOTOELECTRIC SENSORS WITH AXIAL OPTIC - SS SERIES

Funz. Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili/3 wires Lon NPN	3 fili/3 wires Lon PNP	3 fili/3 wires Don NPN	3 fili/3 wires Don PNP	4 fili/4 wires NPN LO/DO	4 fili/4 wires PNP LO/DO	
Tasteggio diretto Diffuse reflection	50 mm	Plastico Plastic	No	SSA/LN-0A	SSA/LP-0A	SSA/DN-0A	SSA/DP-0A	SSA/ON-0A	SSA/OP-0A	
			Si / Yes	SSB/LN-0A	SSB/LP-0A	SSB/DN-0A	SSB/DP-0A	SSB/ON-0A	SSB/OP-0A	
		Metallico Metal	No	SSA/LN-1A	SSA/LP-1A	SSA/DN-1A	SSA/DP-1A	SSA/ON-1A	SSA/OP-1A	
			Si / Yes	SSB/LN-1A	SSB/LP-1A	SSB/DN-1A	SSB/DP-1A	SSB/ON-1A	SSB/OP-1A	
	100 mm	Plastico Plastic	No	SS2/LN-0A	SS2/LP-0A	SS2/DN-0A	SS2/DP-0A	SS2/ON-0A	SS2/OP-0A	
			Si / Yes	SS3/LN-0A	SS3/LP-0A	SS3/DN-0A	SS3/DP-0A	SS3/ON-0A	SS3/OP-0A	
		Metallico Metal	No	SS2/LN-1A	SS2/LP-1A	SS2/DN-1A	SS2/DP-1A	SS2/ON-1A	SS2/OP-1A	
			Si / Yes	SS3/LN-1A	SS3/LP-1A	SS3/DN-1A	SS3/DP-1A	SS3/ON-1A	SS3/OP-1A	
	200 mm	Plastico Plastic	No	SS5/LN-0A	SS5/LP-0A	SS5/DN-0A	SS5/DP-0A	SS5/ON-0A	SS5/OP-0A	
			Si / Yes	SS4/LN-0A	SS4/LP-0A	SS4/DN-0A	SS4/DP-0A	SS4/ON-0A	SS4/OP-0A	
		Metallico Metal	No	SS5/LN-1A	SS5/LP-1A	SS5/DN-1A	SS5/DP-1A	SS5/ON-1A	SS5/OP-1A	
			Si / Yes	SS4/LN-1A	SS4/LP-1A	SS4/DN-1A	SS4/DP-1A	SS4/ON-1A	SS4/OP-1A	
	400 mm	Plastico Plastic	No	SS6/LN-0A	SS6/LP-0A	SS6/DN-0A	SS6/DP-0A	SS6/ON-0A	SS6/OP-0A	
			Si / Yes	SS7/LN-0A	SS7/LP-0A	SS7/DN-0A	SS7/DP-0A	SS7/ON-0A	SS7/OP-0A	
		Metallico Metal	No	SS6/LN-1A	SS6/LP-1A	SS6/DN-1A	SS6/DP-1A	SS6/ON-1A	SS6/OP-1A	
			Si / Yes	SS7/LN-1A	SS7/LP-1A	SS7/DN-1A	SS7/DP-1A	SS7/ON-1A	SS7/OP-1A	
	800 mm	Plastico Plastic	No	SS9/LN-0A	SS9/LP-0A	SS9/DN-0A	SS9/DP-0A	SS9/ON-0A	SS9/OP-0A	
			Si / Yes	SS8/LN-0A	SS8/LP-0A	SS8/DN-0A	SS8/DP-0A	SS8/ON-0A	SS8/OP-0A	
		Metallico Metal	No	SS9/LN-1A	SS9/LP-1A	SS9/DN-1A	SS9/DP-1A	SS9/ON-1A	SS9/OP-1A	
			Si / Yes	SS8/LN-1A	SS8/LP-1A	SS8/DN-1A	SS8/DP-1A	SS8/ON-1A	SS8/OP-1A	
	Soppr. di sfondo Background suppression	50 mm	Plastico/Plastic Metallico/Metal	No	SS0/LN-0A	SS0/LP-0A	SS0/DN-0A	SS0/DP-0A	SS0/ON-0A	SS0/OP-0A
				No	SS0/LN-1A	SS0/LP-1A	SS0/DN-1A	SS0/DP-1A	SS0/ON-1A	SS0/OP-1A
		100 mm	Plastico/Plastic Metallico/Metal	No	SS1/LN-0A	SS1/LP-0A	SS1/DN-0A	SS1/DP-0A	SS1/ON-0A	SS1/OP-0A
				No	SS1/LN-1A	SS1/LP-1A	SS1/DN-1A	SS1/DP-1A	SS1/ON-1A	SS1/OP-1A
Catarifr. Retrorefl.	4 m	Plastico Plastic	No	SSC/LN-0A	SSC/LP-0A	SSC/DN-0A	SSC/DP-0A	SSC/ON-0A	SSC/OP-0A	
			Si / Yes	/	/	/	/	SSC/ON-0A3X	SSC/OP-0A3X	
		Metallico Metal	No	SSC/LN-1A	SSC/LP-1A	SSC/DN-1A	SSC/DP-1A	SSC/ON-1A	SSC/OP-1A	
			Si / Yes	/	/	/	/	SSC/ON-1A3X	SSC/OP-1A3X	
Polarizzata Polarized	3 m	Plastico Plastic	No	SSP/LN-0A	SSP/LP-0A	SSP/DN-0A	SSP/DP-0A	SSP/ON-0A	SSP/OP-0A	
			Si / Yes	/	/	/	/	SSP/ON-0A3X	SSP/OP-0A3X	
		Metallico Metal	No	SSP/LN-1A	SSP/LP-1A	SSP/DN-1A	SSP/DP-1A	SSP/ON-1A	SSP/OP-1A	
			Si / Yes	/	/	/	/	SSP/ON-1A3X	SSP/OP-1A3X	
Barriera Through-beam	14 m	Plastico Plastic	Emettit.	SSH/00-0A						
			Em+check	SSH/X0-0A						
			Ricev.	SSZ/LN-0A	SSZ/LP-0A	SSZ/DN-0A	SSZ/DP-0A	SSZ/ON-0A	SSZ/OP-0A	
			Receiv. reg	SSD/LN-0A	SSD/LP-0A	SSD/DN-0A	SSD/DP-0A	SSD/ON-0A	SSD/OP-0A	
		Metallico Metal	Emettit.	SSH/00-1A						
			Em+check	SSH/X0-1A						
			Ricev.	SSZ/LN-1A	SSZ/LP-1A	SSZ/DN-1A	SSZ/DP-1A	SSZ/ON-1A	SSZ/OP-1A	
			Receiv. reg	SSD/LN-1A	SSD/LP-1A	SSD/DN-1A	SSD/DP-1A	SSD/ON-1A	SSD/OP-1A	

Per fotocellule con ottica a 90° sostituire nel codice **SS** con **SP** (es.: **SS2/OP-0E** --> **SP2/OP-0E**)

For right angle optic sensors replace **SS** with **SP** in the code (ie.: **SS2/OP-0E** --> **SP2/OP-0E**)

Modelli speciali da sostituzione: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.

Special models for replacement: could be subjected to delays in delivery terms or limits for the quantities to be ordered.

## CYLINDRIC PHOTOELECTRIC SENSORS M18

### FOTOCELLE CONNETTORE OTTICA ASSIALE - SERIE SS PLUG EXIT PHOTOELECTRIC SENSORS WITH AXIAL OPTIC - SS SERIES

Funz. Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili/3 wires Lon NPN	3 fili/3 wires Lon PNP	3 fili/3 wires Don NPN	3 fili/3 wires Don PNP	4 fili/4 wires NPN LO/DO	4 fili/4 wires PNP LO/DO	
Tasteggio diretto <i>Diffuse reflection</i>	50 mm	Plastico <i>Plastic</i>	No	SSA/LN-0E	SSA/LP-0E	SSA/DN-0E	SSA/DP-0E	SSA/ON-0E	SSA/OP-0E	
			Si / Yes	SSB/LN-0E	SSB/LP-0E	SSB/DN-0E	SSB/DP-0E	SSB/ON-0E	SSB/OP-0E	
		Metallico <i>Metal</i>	No	SSA/LN-1E	SSA/LP-1E	SSA/DN-1E	SSA/DP-1E	SSA/ON-1E	SSA/OP-1E	
			Si / Yes	SSB/LN-1E	SSB/LP-1E	SSB/DN-1E	SSB/DP-1E	SSB/ON-1E	SSB/OP-1E	
	100 mm	Plastico <i>Plastic</i>	No	SS2/LN-0E	SS2/LP-0E	SS2/DN-0E	SS2/DP-0E	SS2/ON-0E	SS2/OP-0E	
			Si / Yes	SS3/LN-0E	SS3/LP-0E	SS3/DN-0E	SS3/DP-0E	SS3/ON-0E	SS3/OP-0E	
		Metallico <i>Metal</i>	No	SS2/LN-1E	SS2/LP-1E	SS2/DN-1E	SS2/DP-1E	SS2/ON-1E	SS2/OP-1E	
			Si / Yes	SS3/LN-1E	SS3/LP-1E	SS3/DN-1E	SS3/DP-1E	SS3/ON-1E	SS3/OP-1E	
	200 mm	Plastico <i>Plastic</i>	No	SS5/LN-0E	SS5/LP-0E	SS5/DN-0E	SS5/DP-0E	SS5/ON-0E	SS5/OP-0E	
			Si / Yes	SS4/LN-0E	SS4/LP-0E	SS4/DN-0E	SS4/DP-0E	SS4/ON-0E	SS4/OP-0E	
		Metallico <i>Metal</i>	No	SS5/LN-1E	SS5/LP-1E	SS5/DN-1E	SS5/DP-1E	SS5/ON-1E	SS5/OP-1E	
			Si / Yes	SS4/LN-1E	SS4/LP-1E	SS4/DN-1E	SS4/DP-1E	SS4/ON-1E	SS4/OP-1E	
	400 mm	Plastico <i>Plastic</i>	No	SS6/LN-0E	SS6/LP-0E	SS6/DN-0E	SS6/DP-0E	SS6/ON-0E	SS6/OP-0E	
			Si / Yes	SS7/LN-0E	SS7/LP-0E	SS7/DN-0E	SS7/DP-0E	SS7/ON-0E	SS7/OP-0E	
		Metallico <i>Metal</i>	No	SS6/LN-1E	SS6/LP-1E	SS6/DN-1E	SS6/DP-1E	SS6/ON-1E	SS6/OP-1E	
			Si / Yes	SS7/LN-1E	SS7/LP-1E	SS7/DN-1E	SS7/DP-1E	SS7/ON-1E	SS7/OP-1E	
	800 mm	Plastico <i>Plastic</i>	No	SS9/LN-0E	SS9/LP-0E	SS9/DN-0E	SS9/DP-0E	SS9/ON-0E	SS9/OP-0E	
			Si / Yes	SS8/LN-0E	SS8/LP-0E	SS8/DN-0E	SS8/DP-0E	SS8/ON-0E	SS8/OP-0E	
		Metallico <i>Metal</i>	No	SS9/LN-1E	SS9/LP-1E	SS9/DN-1E	SS9/DP-1E	SS9/ON-1E	SS9/OP-1E	
			Si / Yes	SS8/LN-1E	SS8/LP-1E	SS8/DN-1E	SS8/DP-1E	SS8/ON-1E	SS8/OP-1E	
	Soppr. di sfondo <i>Background suppression</i>	50 mm	Plastico / Plastic Metallico / Metal	No	SS0/LN-0E	SS0/LP-0E	SS0/DN-0E	SS0/DP-0E	SS0/ON-0E	SS0/OP-0E
				Si / Yes	SS0/LN-1E	SS0/LP-1E	SS0/DN-1E	SS0/DP-1E	SS0/ON-1E	SS0/OP-1E
		100 mm	Plastico / Plastic Metallico / Metal	No	SS1/LN-0E	SS1/LP-0E	SS1/DN-0E	SS1/DP-0E	SS1/ON-0E	SS1/OP-0E
				Si / Yes	SS1/LN-1E	SS1/LP-1E	SS1/DN-1E	SS1/DP-1E	SS1/ON-1E	SS1/OP-1E
Catarifr. <i>Retrorefl.</i>	4 m	Plastico <i>Plastic</i>	No	SSC/LN-0E	SSC/LP-0E	SSC/DN-0E	SSC/DP-0E	SSC/ON-0E	SSC/OP-0E	
			Si / Yes	/	/	/	/	SSC/ON-0E3X	SSC/OP-0E3X	
		Metallico <i>Metal</i>	No	SSC/LN-1E	SSC/LP-1E	SSC/DN-1E	SSC/DP-1E	SSC/ON-1E	SSC/OP-1E	
			Si / Yes	/	/	/	/	SSC/ON-1E3X	SSC/OP-1E3X	
Polarizzata <i>Polarized</i>	3 m	Plastico <i>Plastic</i>	No	SSP/LN-0E	SSP/LP-0E	SSP/DN-0E	SSP/DP-0E	SSP/ON-0E	SSP/OP-0E	
			Si / Yes	/	/	/	/	SSP/ON-0E3X	SSP/OP-0E3X	
		Metallico <i>Metal</i>	No	SSP/LN-1E	SSP/LP-1E	SSP/DN-1E	SSP/DP-1E	SSP/ON-1E	SSP/OP-1E	
			Si / Yes	/	/	/	/	SSP/ON-1E3X	SSP/OP-1E3X	
Barriera <i>Through-beam</i>	14 m	Plastico <i>Plastic</i>	Emettit.	SSH/00-0E						
			Em+check	SSH/X0-0E						
			Ricev.	SSZ/LN-0E	SSZ/LP-0E	SSZ/DN-0E	SSZ/DP-0E	SSZ/ON-0E	SSZ/OP-0E	
			Receiv.reg	SSD/LN-0E	SSD/LP-0E	SSD/DN-0E	SSD/DP-0E	SSD/ON-0E	SSD/OP-0E	
		Metallico <i>Metal</i>	Emettit.	SSH/00-1E						
			Em+check	SSH/X0-1E						
			Ricev.	SSZ/LN-1E	SSZ/LP-1E	SSZ/DN-1E	SSZ/DP-1E	SSZ/ON-1E	SSZ/OP-1E	
			Receiv.reg	SSD/LN-1E	SSD/LP-1E	SSD/DN-1E	SSD/DP-1E	SSD/ON-1E	SSD/OP-1E	

Per fotocelle con ottica a 90° sostituire nel codice **SS** con **SP** (es.: **SS2/OP-0E** --> **SP2/OP-0E**)  
For right angle optic sensors replace **SS** with **SP** in the code (ie.: **SS2/OP-0E** --> **SP2/OP-0E**)

Modelli speciali da sostituzione: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.  
Special models for replacement: could be subjected to delays in delivery terms or limits for the quantities to be ordered.



## PHOTOELECTRIC SENSORS - FA SERIES

## FOTOCCELLULE A CAVO

## CABLE EXIT PHOTOELECTRIC SENSORS

Funz. Model	Portata Distance	Corpo Housing	Regol. Adj.	Fotocellule a cavo con ottica assiale Cable exit photoelectric sensors axial optic		Fotocellule a cavo con ottica radiale Cable exit photoelectric sensors radial optic	
				4 fili/4 wires NPN NO+NC	4 fili/4 wires PNP NO+NC	4 fili/4 wires NPN NO+NC	4 fili/4 wires PNP NO+NC
Tasteggio diretto Diffuse reflection	50 mm	Plastico Plastic	No	FARA/BN-0A	FARA/BP-0A	FARA/BN-2A	FARA/BP-2A
			Si / Yes	FARB/BN-0A	FARB/BP-0A	FARB/BN-2A	FARB/BP-2A
		Metallico Metal	No	FARA/BN-1A	FARA/BP-1A	FARA/BN-3A	FARA/BP-3A
			Si / Yes	FARB/BN-1A	FARB/BP-1A	FARB/BN-3A	FARB/BP-3A
	100 mm	Plastico Plastic	No	FAR2/BN-0A	FAR2/BP-0A	FAR2/BN-2A	FAR2/BP-2A
			Si / Yes	FAR3/BN-0A	FAR3/BP-0A	FAR3/BN-2A	FAR3/BP-2A
		Metallico Metal	No	FAR2/BN-1A	FAR2/BP-1A	FAR2/BN-3A	FAR2/BP-3A
			Si / Yes	FAR3/BN-1A	FAR3/BP-1A	FAR3/BN-3A	FAR3/BP-3A
	200 mm	Plastico Plastic	No	FAI5/BN-0A	FAI5/BP-0A	FAI5/BN-2A	FAI5/BP-2A
			Si / Yes	FAI4/BN-0A	FAI4/BP-0A	FAI4/BN-2A	FAI4/BP-2A
		Metallico Metal	No	FAI5/BN-1A	FAI5/BP-1A	FAI5/BN-3A	FAI5/BP-3A
			Si / Yes	FAI4/BN-1A	FAI4/BP-1A	FAI4/BN-3A	FAI4/BP-3A
	400 mm	Plastico Plastic	No	FAI6/BN-0A	FAI6/BP-0A	FAI6/BN-2A	FAI6/BP-2A
			Si / Yes	FAI7/BN-0A	FAI7/BP-0A	FAI7/BN-2A	FAI7/BP-2A
		Metallico Metal	No	FAI6/BN-1A	FAI6/BP-1A	FAI6/BN-3A	FAI6/BP-3A
			Si / Yes	FAI7/BN-1A	FAI7/BP-1A	FAI7/BN-3A	FAI7/BP-3A
1000 mm (assiali/axial)	Plastico Plastic	No	FAI9/BN-0A	FAI9/BP-0A	FAI9/BN-2A	FAI9/BP-2A	
		Si / Yes	FAI8/BN-0A	FAI8/BP-0A	FAI8/BN-2A	FAI8/BP-2A	
800 mm (radiali/radial)	Metallico Metal	No	FAI9/BN-1A	FAI9/BP-1A	FAI9/BN-3A	FAI9/BP-3A	
		Si / Yes	FAI8/BN-1A	FAI8/BP-1A	FAI8/BN-3A	FAI8/BP-3A	
Catarifr. Retrorefl.	4 m	Plastico Plastic	No	FAIC/BN-0A	FAIC/BP-0A	FAIC/BN-2A	FAIC/BP-2A
			Si / Yes	FAIM/BN-0A	FAIM/BP-0A	FAIM/BN-2A	FAIM/BP-2A
		Metallico Metal	No	FAIC/BN-1A	FAIC/BP-1A	FAIC/BN-3A	FAIC/BP-3A
			Si / Yes	FAIM/BN-1A	FAIM/BP-1A	FAIM/BN-3A	FAIM/BP-3A
Polarizzata Polarized	3 m (assiali/axial)	Plastico Plastic	No	FARP/BN-0A	FARP/BP-0A	FARP/BN-2A	FARP/BP-2A
			Si / Yes	FARN/BN-0A	FARN/BP-0A	FARN/BN-2A	FARN/BP-2A
	2 m (radiali/radial)	Metallico Metal	No	FARP/BN-1A	FARP/BP-1A	FARP/BN-3A	FARP/BP-3A
			Si / Yes	FARN/BN-1A	FARN/BP-1A	FARN/BN-3A	FARN/BP-3A
Trasparenti Transparents	0,1...1 m	Plastico / Plastic	Si / Yes	FARL/BN-0A	FARL/BP-0A	FARL/BN-2A	FARL/BP-2A
		Metallico / Metal	Si / Yes	FARL/BN-1A	FARL/BP-1A	FARL/BN-3A	FARL/BP-3A
Barriera Through beam	10 m (assiali/axial)	Plastico Plastic	Emettit.	FAIH/00-0A		FAIH/00-2A	
			Em+check	FAIH/X0-0A		FAIH/X0-2A	
			Ricev.	FAIZ/BN-0A	FAIZ/BP-0A	FAIZ/BN-2A	FAIZ/BP-2A
			Receiv. reg.	FAID/BN-0A	FAID/BP-0A	FAID/BN-2A	FAID/BP-2A
	15 m (radiali/radial)	Metallico Metal	Emettit.	FAIH/00-1A		FAIH/00-3A	
			Em+check	FAIH/X0-1A		FAIH/X0-3A	
			Ricev.	FAIZ/BN-1A	FAIZ/BP-1A	FAIZ/BN-3A	FAIZ/BP-3A
			Receiv. reg.	FAID/BN-1A	FAID/BP-1A	FAID/BN-3A	FAID/BP-3A

## PHOTOELECTRIC SENSORS - FA SERIES

### FOTOCELLE A CONNETTORE CON OTTICA ASSIALE PLUG EXIT PHOTOELECTRIC SENSORS WITH AXIAL OPTIC

Funzione Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili/3 wires Lon PNP	3 fili/3 wires Don NPN	4 fili/4 wires NPN LO/DO	4 fili/4 wires PNP LO/DO	4 fili/4 wires NPN NO+NC	4 fili/4 wires PNP NO+NC	
Tasteggio diretto Diffuse reflection	50 mm	Plastico Plastic	No			FARA/ON-0E	FARA/OP-0E	FARA/BN-0E	FARA/BP-0E	
			Si / Yes			FARB/ON-0E	FARB/OP-0E	FARB/BN-0E	FARB/BP-0E	
		Metallico Metal	No			FARA/ON-1E	FARA/OP-1E	FARA/BN-1E	FARA/BP-1E	
			Si / Yes			FARB/ON-1E	FARB/OP-1E	FARB/BN-1E	FARB/BP-1E	
	100 mm	Plastico Plastic	No		FAR2/DN-0E	FAR2/ON-0E	FAR2/OP-0E	FAR2/BN-0E	FAR2/BP-0E	
			Si / Yes		FAR3/DN-0E	FAR3/ON-0E	FAR3/OP-0E	FAR3/BN-0E	FAR3/BP-0E	
		Metallico Metal	No		FAR2/DN-1E	FAR2/ON-1E	FAR2/OP-1E	FAR2/BN-1E	FAR2/BP-1E	
			Si / Yes		FAR3/DN-1E	FAR3/ON-1E	FAR3/OP-1E	FAR3/BN-1E	FAR3/BP-1E	
	200 mm	Plastico Plastic	No		FAI5/DN-0E	FAI5/ON-0E	FAI5/OP-0E	FAI5/BN-0E	FAI5/BP-0E	
			Si / Yes		FAI4/DN-0E	FAI4/ON-0E	FAI4/OP-0E	FAI4/BN-0E	FAI4/BP-0E	
		Metallico Metal	No		FAI5/DN-1E	FAI5/ON-1E	FAI5/OP-1E	FAI5/BN-1E	FAI5/BP-1E	
			Si / Yes		FAI4/DN-1E	FAI4/ON-1E	FAI4/OP-1E	FAI4/BN-1E	FAI4/BP-1E	
	400 mm	Plastico Plastic	No		FAI6/DN-0E	FAI6/ON-0E	FAI6/OP-0E	FAI6/BN-0E	FAI6/BP-0E	
			Si / Yes		FAI7/DN-0E	FAI7/ON-0E	FAI7/OP-0E	FAI7/BN-0E	FAI7/BP-0E	
		Metallico Metal	No		FAI6/DN-1E	FAI6/ON-1E	FAI6/OP-1E	FAI6/BN-1E	FAI6/BP-1E	
			Si / Yes		FAI7/DN-1E	FAI7/ON-1E	FAI7/OP-1E	FAI7/BN-1E	FAI7/BP-1E	
	1000 mm	Plastico Plastic	No				FAI9/ON-0E	FAI9/OP-0E	FAI9/BN-0E	FAI9/BP-0E
			Si / Yes				FAI8/ON-0E	FAI8/OP-0E	FAI8/BN-0E	FAI8/BP-0E
		Metallico Metal	No				FAI9/ON-1E	FAI9/OP-1E	FAI9/BN-1E	FAI9/BP-1E
			Si / Yes				FAI8/ON-1E	FAI8/OP-1E	FAI8/BN-1E	FAI8/BP-1E
	Catarifr. Retrorefl.	4 m	Plastico Plastic	No	FAIC/LP-0E		FAIC/ON-0E	FAIC/OP-0E	FAIC/BN-0E	FAIC/BP-0E
				Si / Yes					FAIM/BN-0E	FAIM/BP-0E
			Metallico Metal	No	FAIC/LP-1E		FAIC/ON-1E	FAIC/OP-1E	FAIC/BN-1E	FAIC/BP-1E
				Si / Yes					FAIM/BN-1E	FAIM/BP-1E
Polarizzata Polarized	3 m	Plastico Plastic	No			FARP/ON-0E	FARP/OP-0E	FARP/BN-0E	FARP/BP-0E	
			Si / Yes					FARN/BN-0E	FARN/BP-0E	
		Metallico Metal	No			FARP/ON-1E	FARP/OP-1E	FARP/BN-1E	FARP/BP-1E	
			Si / Yes					FARN/BN-1E	FARN/BP-1E	
Trasparenti Transparents	0,1...1 m	Plastico / Plastic	Si / Yes					FARL/BN-0E	FARL/BP-0E	
		Metallico / Metal	Si / Yes					FARL/BN-1E	FARL/BP-1E	
Barriera Through-beam	20 m	Plastico Plastic	Emettit.					FAIH/00-0E		
			Em+check					FAIH/X0-0E		
			Ricev.	FAIZ/LP-0E		FAIZ/ON-0E	FAIZ/OP-0E	FAIZ/BN-0E	FAIZ/BP-0E	
			Receiv. reg.			FAID/ON-0E	FAID/OP-0E	FAID/BN-0E	FAID/BP-0E	
		Metallico Metal	Emettit.					FAIH/00-1E		
			Em+check					FAIH/X0-1E		
			Ricev.	FAIZ/LP-1E		FAIZ/ON-1E	FAIZ/OP-1E	FAIZ/BN-1E	FAIZ/BP-1E	
			Receiv. reg.			FAID/ON-1E	FAID/OP-1E	FAID/BN-1E	FAID/BP-1E	

Modelli speciali da sostituzione: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.  
Special models for replacement: could be subjected to delays in delivery terms or limits for the quantities to be ordered.

## PHOTOELECTRIC SENSORS - FA SERIES

## FOTOCCELLULE A CONNETTORE CON OTTICA RADIALE

## PLUG EXIT PHOTOELECTRIC SENSORS WITH RIGHT ANGLE OPTIC

Funzioni Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili/3 wires Lon PNP	3 fili/3 wires Don NPN	4 fili/4 wires NPN LO/DO	4 fili/4 wires PNP LO/DO	4 fili/4 wires NPN NO+NC	4 fili/4 wires PNP NO+NC		
Tasteggio diretto Diffuse reflection	50 mm	Plastico Plastic	No			FARA/ON-2E	FARA/OP-2E	FARA/BN-2E	FARA/BP-2E		
			Si / Yes			FARB/ON-2E	FARB/OP-2E	FARB/BN-2E	FARB/BP-2E		
		Metallico Metal	No			FARA/ON-3E	FARA/OP-3E	FARA/BN-3E	FARA/BP-3E		
			Si / Yes			FARB/ON-3E	FARB/OP-3E	FARB/BN-3E	FARB/BP-3E		
		100 mm	Plastico Plastic	No		FAR2/DN-2E	FAR2/ON-2E	FAR2/OP-2E	FAR2/BN-2E	FAR2/BP-2E	
				Si / Yes		FAR3/DN-2E	FAR3/ON-2E	FAR3/OP-2E	FAR3/BN-2E	FAR3/BP-2E	
	Metallico Metal		No		FAR2/DN-3E	FAR2/ON-3E	FAR2/OP-3E	FAR2/BN-3E	FAR2/BP-3E		
			Si / Yes		FAR3/DN-3E	FAR3/ON-3E	FAR3/OP-3E	FAR3/BN-3E	FAR3/BP-3E		
	200 mm		Plastico Plastic	No		FAI5/DN-2E	FAI5/ON-2E	FAI5/OP-2E	FAI5/BN-2E	FAI5/BP-2E	
				Si / Yes		FAI4/DN-2E	FAI4/ON-2E	FAI4/OP-2E	FAI4/BN-2E	FAI4/BP-2E	
		Metallico Metal	No		FAI5/DN-3E	FAI5/ON-3E	FAI5/OP-3E	FAI5/BN-3E	FAI5/BP-3E		
			Si / Yes		FAI4/DN-3E	FAI4/ON-3E	FAI4/OP-3E	FAI4/BN-3E	FAI4/BP-3E		
		400 mm	Plastico Plastic	No		FAI6/DN-2E	FAI6/ON-2E	FAI6/OP-2E	FAI6/BN-2E	FAI6/BP-2E	
				Si / Yes		FAI7/DN-2E	FAI7/ON-2E	FAI7/OP-2E	FAI7/BN-2E	FAI7/BP-2E	
	Metallico Metal		No		FAI6/DN-3E	FAI6/ON-3E	FAI6/OP-3E	FAI6/BN-3E	FAI6/BP-3E		
			Si / Yes		FAI7/DN-3E	FAI7/ON-3E	FAI7/OP-3E	FAI7/BN-3E	FAI7/BP-3E		
	800 mm		Plastico Plastic	No			FAI9/ON-2E	FAI9/OP-2E	FAI9/BN-2E	FAI9/BP-2E	
				Si / Yes			FAI8/ON-2E	FAI8/OP-2E	FAI8/BN-2E	FAI8/BP-2E	
		Metallico Metal	No			FAI9/ON-3E	FAI9/OP-3E	FAI9/BN-3E	FAI9/BP-3E		
			Si / Yes			FAI8/ON-3E	FAI8/OP-3E	FAI8/BN-3E	FAI8/BP-3E		
		Catarifr. Retrorefl.	4 m	Plastico Plastic	No	FAIC/LP-2E		FAIC/ON-2E	FAIC/OP-2E	FAIC/BN-2E	FAIC/BP-2E
					Si / Yes					FAIM/BN-2E	FAIM/BP-2E
	Metallico Metal			No	FAIC/LP-3E		FAIC/ON-3E	FAIC/OP-3E	FAIC/BN-3E	FAIC/BP-3E	
				Si / Yes					FAIM/BN-3E	FAIM/BP-3E	
Polarizzata Polarized	2 m	Plastico Plastic	No			FARP/ON-2E	FARP/OP-2E	FARP/BN-2E	FARP/BP-2E		
			Si / Yes					FARN/BN-2E	FARN/BP-2E		
		Metallico Metal	No			FARP/ON-3E	FARP/OP-3E	FARP/BN-3E	FARP/BP-3E		
			Si / Yes					FARN/BN-3E	FARN/BP-3E		
Trasparenti Transparents	0,1...1 m	Plastico / Plastic	Si / Yes					FARL/BN-2E	FARL/BP-2E		
		Metallico / Metal	Si / Yes					FARL/BN-3E	FARL/BP-3E		
Barriera Through-beam	15 m	Plastico Plastic	Emettit.					FAIH/00-2E			
			Em+check					FAIH/X0-2E			
			Ricev.	FAIZ/LP-2E		FAIZ/ON-2E	FAIZ/OP-2E	FAIZ/BN-2E	FAIZ/BP-2E		
			Receiv. reg.			FAID/ON-2E	FAID/OP-2E	FAID/BN-2E	FAID/BP-2E		
		Metallico Metal	Emettit.					FAIH/00-3E			
			Em+check					FAIH/X0-3E			
			Ricev.	FAIZ/LP-3E		FAIZ/ON-3E	FAIZ/OP-3E	FAIZ/BN-3E	FAIZ/BP-3E		
			Receiv. reg.			FAID/ON-3E	FAID/OP-3E	FAID/BN-3E	FAID/BP-3E		

Modelli speciali da sostituzione: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.

Special models for replacement: could be subjected to delays in delivery terms or limits for the quantities to be ordered.



## SPECIAL CYLINDRIC PHOTOELECTRIC SENSORS

### FOTOCELLULA M12 - SERIE DM

M12 PHOTOELECTRIC SENSOR - DM SERIES

Funzione / Model	Portata Distance	Regolazione / Adjusting	4 fili/4 wires Lon/Don NPN		4 fili/4 wires Lon/Don PNP	
			Cavo Cable	Connettore Plug	Cavo Cable	Connettore Plug
Tasteggio diretto Direct diffuse	100 mm	No	DM2/ON-1A	DM2/ON-1H	DM2/OP-1A	DM2/OP-1H
	100 mm	Si / Yes	DM3/ON-1A	DM3/ON-1H	DM3/OP-1A	DM3/OP-1H
	200 mm	No	DM5/ON-1A	DM5/ON-1H	DM5/OP-1A	DM5/OP-1H
	300 mm	Si / Yes	DM7/ON-1A	DM7/ON-1H	DM7/OP-1A	DM7/OP-1H
Polarizzata / Polarized	2 m	Si / Yes	DMP/ON-1A	DMP/ON-1H	DMP/OP-1A	DMP/OP-1H
Emettitore / Emitter	4 m	Si / Yes	DME/00-1A	DME/00-1H	DME/00-1A	DME/00-1H
Ricevitore / Receiver		No	DMR/ON-1A	DMR/ON-1H	DMR/OP-1A	DMR/OP-1H

### FOTOCELLULA M18 A CATARIFRANGENTE PER OGGETTI TRASPARENTI - SERIE FA

M18 RETROREFLECTIVE PHOTOELECTRIC SENSOR FOR TRANSPARENT OBJECTS - FA SERIES

Funzione / Model	Portata Distance	Corpo / Housing	4 fili/4 wires NO+NC NPN		4 fili/4 wires NO+NC PNP	
			Cavo Cable	Connettore Plug	Cavo Cable	Connettore Plug
Catarifrangente Retroreflective	0,1...1 m	Plastica assiale / Axial plastic	FARL/BN-0A	FARL/BN-0E	FARL/BP-0A	FARL/BP-0E
		Metallica assiale / Axial metal	FARL/BN-1A	FARL/BN-1E	FARL/BP-1A	FARL/BP-1E
		Plastica 90° / 90° plastic	FARL/BN-2A	FARL/BN-2E	FARL/BP-2A	FARL/BP-2E
		Metallica 90° / 90° metal	FARL/BN-3A	FARL/BN-3E	FARL/BP-3A	FARL/BP-3E

### FOTOCELLULE LASER M18

M18 LASER PHOTOELECTRIC SENSORS

Funzione / Model	Portata Distance	Corpo / Housing	4 fili/4 wires NO+NC NPN		4 fili/4 wires NO+NC PNP	
			Cavo Cable	Connettore Plug	Cavo Cable	Connettore Plug
Tasteggio diretto Direct diffuse	300 mm	Plastica assiale / Axial plastic	FAL4/BN-0A	FAL4/BN-0E	FAL4/BP-0A	FAL4/BP-0E
		Metallica assiale / Axial metal	FAL4/BN-1A	FAL4/BN-1E	FAL4/BP-1A	FAL4/BP-1E
	200 mm	Plastica 90° / 90° plastic	FAL4/BN-2A	FAL4/BN-2E	FAL4/BP-2A	FAL4/BP-2E
		Metallica 90° / 90° metal	FAL4/BN-3A	FAL4/BN-3E	FAL4/BP-3A	FAL4/BP-3E
Catarifrangente Retroreflective	20 m (RL110)	Plastica assiale / Axial plastic	FALN/BN-0A	FALN/BN-0E	FALN/BP-0A	FALN/BP-0E
		Metallica assiale / Axial metal	FALN/BN-1A	FALN/BN-1E	FALN/BP-1A	FALN/BP-1E
	30 m (RL201)	Plastica 90° / 90° plastic	FALN/BN-2A	FALN/BN-2E	FALN/BP-2A	FALN/BP-2E
		Metallica 90° / 90° metal	FALN/BN-3A	FALN/BN-3E	FALN/BP-3A	FALN/BP-3E
Emettitore Emitter	50 m	Plastica assiale / Axial plastic	FALH/X0-0A	FALH/X0-0E	FALH/X0-0A	FALH/X0-0E
		Metallica assiale / Axial metal	FALH/X0-1A	FALH/X0-1E	FALH/X0-1A	FALH/X0-1E
		Plastica 90° / 90° plastic	FALH/X0-2A	FALH/X0-2E	FALH/X0-2A	FALH/X0-2E
		Metallica 90° / 90° metal	FALH/X0-3A	FALH/X0-3E	FALH/X0-3A	FALH/X0-3E
Ricevitore Receiver	50 m	Plastica assiale / Axial plastic	FALD/BN-0A	FALD/BN-0E	FALD/BP-0A	FALD/BP-0E
		Metallica assiale / Axial metal	FALD/BN-1A	FALD/BN-1E	FALD/BP-1A	FALD/BP-1E
		Plastica 90° / 90° plastic	FALD/BN-2A	FALD/BN-2E	FALD/BP-2A	FALD/BP-2E
		Metallica 90° / 90° metal	FALD/BN-3A	FALD/BN-3E	FALD/BP-3A	FALD/BP-3E

*SPECIAL CYLINDRIC PHOTOELECTRIC SENSORS***BARRIERE M18 PER OGGETTI PICCOLI - SERIE SS/SP***M18 THROUGH-BEAM sensors for small objects - SS/SP series*

Funz. Model	Portata Distance	Minimo oggetto Minimum object	Corpo Housing	Modelli con uscita cavo Cable exit models			
				PNP		NPN	
				NO	NC	NO	NC
Ricevitore Receiver	8 m	Ø4 mm	Plastico / Plastic	SSG/AP-0A	SSG/CP-0A	SSG/AN-0A	SSG/CN-0A
			Metallico / Metal	SSG/AP-1A	SSG/CP-1A	SSG/AN-1A	SSG/CN-1A
	3 m	Ø1 mm	Plastico / Plastic	SSU/AP-0A	SSU/CP-0A	SSU/AN-0A	SSU/CN-0A
			Metallico / Metal	SSU/AP-1A	SSU/CP-1A	SSU/AN-1A	SSU/CN-1A
Emettitore Emitter	/	/	Plastico / Plastic	SSU/00-0A			
			Metallico / Metal	SSU/00-1A			
Emett. + check	/	/	Plastico / Plastic	SSU/X0-0A			
			Metallico / Metal	SSU/X0-1A			

Per fotocellule con ottica a 90° sostituire nel codice **SS** con **SP** (es.: **SSU/00-0A** --> **SPU/00-0A**)For right angle optic sensors replace **SS** with **SP** in the code (ie.: **SSU/00-0A** --> **SPU/00-0A**)**\* Uscite possibili / Available exits**

<b>A:</b> uscita cavo assiale / axial cable exit (SSU/00-0A)
<b>B:</b> uscita cavo assiale con codolo / axial cable exit with tang (SSU/00-0B)
<b>C:</b> uscita cavo a 90° / right angle cable exit (SSU/00-0C)
<b>D:</b> uscita cavo a 90° con codolo / right angle cable exit with tang (SSU/00-0D)
<b>E:</b> uscita connettore M12 (versione con corpo plastico) / M12 plug cable exit (plastic housing) (SSU/00-0E)
<b>H:</b> uscita connettore M12 (versione con corpo metallico) / M12 plug cable exit (metal housing) (SSU/00-1H)
<b>K:</b> uscita connettore M12 a 90° / M12 right angle plug cable exit (SSU/00-0K)

**SENSORI M18 AD ALTE PRESTAZIONI - SERIE SA***M18 sensors with high performances - SA series*

Funz. Model	Portata Distance	Modelli plastici Plastic models		Modelli metallici Metal models	
		PNP NO/NC	NPN NO/NC	PNP NO/NC	NPN NO/NC
Tasteggio diretto Diffuse reflection	150 mm	SA2/OP-0C	SA2/ON-0C	SA2/OP-1C	SA2/ON-1C
	400 mm	SA6/OP-0C	SA6/ON-0C	SA6/OP-1C	SA6/ON-1C
	1000 mm	SA8/OP-0C	SA8/ON-0C	SA8/OP-1C	SA8/ON-1C
Catarifrangente Retroreflective	6 m	SAC/OP-0C	SAC/ON-0C	SAC/OP-1C	SAC/ON-1C
Polarizzata Polarized	3 m	SAP/OP-0C	SAP/ON-0C	SAP/OP-1C	SAP/ON-1C
Focalizzata Fixed focus	12 mm (STF-12)	SAT/OP-0C	SAT/ON-0C	SAT/OP-1C	SAT/ON-1C
	25 mm (STF-25)				
	50 mm (STF-50)				

**\* Uscite possibili / Available exits**

<b>C:</b> uscita cavo a 90° / right angle cable exit (SA2/OP-0C)
<b>D:</b> uscita cavo a 90° con codolo / right angle cable exit with tang (SA2/OP-0D)
<b>K:</b> uscita connettore M12 a 90° / M12 right angle plug cable exit (SA2/OP-0K)

## SPECIAL CYLINDRIC PHOTOELECTRIC SENSORS

### BARRIERE M8 AD ALTA VELOCITÀ 10KHZ - SERIE HE

M8 THROUGH-BEAM SENSORS WITH HIGH SWITCHING FREQUENCY 10KHZ - HE SERIES

Modello Model	Portata Distance	Contenitore Housing	Uscita Exit	PNP - NO	PNP - NC	NPN - NO	NPN - NC
Emettitore Emitter	/	Acciaio inox Stainless steel	Cavo / Cable M8	HEE/00-3A HEE/00-3F			
Ricevitore Receiver	1 m	Acciaio inox Stainless steel	Cavo / Cable M8	HER/AP-3A HER/AP-3F	HER/CP-3A HER/CP-3F	HER/AN-3A HER/AN-3F	HER/CN-3A HER/CN-3F

### BARRIERE M8 MINIATURIZZATE - SERIE H8

M8 MINIATURIZED THROUGH-BEAM SENSORS - H8 SERIES

Modello Model	Portata Distance	Contenitore Housing	Uscita Exit	PNP Open collector	Note
Emettitore Emitter	/	Acciaio inox Stainless steel	Cavo / Cable	H8E/1	5Vdc - 25mA
Ricevitore Receiver	1 m	Acciaio inox Stainless steel	Cavo / Cable	H8R/1	I <sub>max</sub> =50mA - P <sub>max</sub> =250mA

### BARRIERE F10 CON CLIP DI FISSAGGIO - SERIE DG

F10 THROUGH-BEAM SENSORS WITH FIXING CLIP - DG SERIES

Modello Model	Portata Distance	Alimentazione Supply voltage	Cavo Cable	PNP - NO	PNP - NC	NPN - NO	NPN - NC
Emettitore Emitter	/	15...37Vdc	5 m	DGE/11-3A			
			7 m	DGE/11-3D			
		10...30Vdc	5 m	DGE/11-3AEA			
			7 m	DGE/11-3DEA			
Ricevitore Receiver	2 m	15...37Vdc	5 m	DGR/DP-3A	DGR/LP-3A	DGR/DN-3A	DGR/LN-3A
			7 m	DGR/DP-3D	DGR/LP-3D	DGR/DN-3D	DGR/LN-3D
		10...30Vdc	5 m	DGR/DP-3AEA	DGR/LP-3AEA	DGR/DN-3AEA	DGR/LN-3AEA
			7 m	DGR/DP-3DEA	DGR/LP-3DEA	DGR/DN-3DEA	DGR/LN-3DEA

### FOTOCEDURE M30 A BARRIERA PER LUNGHE DISTANZE

M30 THROUGH BEAM SENSORS FOR LONG DISTANCE

Modello Model	Corpo Housing	Regolazione Adjustment	Portata Distance	4 fili/wires NPN LO/DO	4 fili/wires PNP LO/DO	4 fili/wires NPN NO+NC	4 fili/wires PNP NO+NC
Ricevitore Receiver	M30	No	60 m	FTIZ/ON-1K	FTIZ/OP-1K	FTIZ/BN-1K	FTIZ/BP-1K
				Senza / without CHECK		Con / with CHECK	
Emettitore Emitter	M30	No	60 m	FTIH/00-1K		FTIH/X0-1K	

*M18 DECOUT PHOTOELECTRIC SENSORS***FOTOCCELLULE M18 DECOUT SERIE MS/MP**  
*DECOUT M18 PHOTOELECTRIC SENSORS MS/MP SERIES*

Funzione Model	Portata Distance	4 fili / 4 wires NPN/PNP - NO/NC	
		Corpo plastico Plastic housing	Corpo metallico Metal housing
Diffusione diretta Direct diffuse	100 mm	MS2/00-0A	MS2/00-1A
	200 mm	MS4/00-0A	MS4/00-1A
	400 mm	MS6/00-0A	MS6/00-1A
Soppressione di sfondo Background suppression	50 mm	MS0/00-0A	MS0/00-1A
	100 mm	MS1/00-0A	MS1/00-1A
Soppressione di sfondo focalizzata Focalised background suppression	12 mm (STF12)	MST/00-0A	MST/00-1A
	25 mm (STF25)		
Catarifrangente / Retroreflective	4 m	MSC/00-0A	MSC/00-1A
Polarizzata / Polarized	3 m	MSP/00-0A	MSP/00-1A
Barriera Through beam	Emettitore / Emitter	MSE/00-0A	MSE/00-1A
	Emettitore + Check Emitter + Check	MSE/X0-0A	MSE/X0-1A
	Ricevitore / Receiver 16 m	MSR/00-0A	MSR/00-1A
	Ricevitore / Receiver 32 m	MSD/00-0A	MSD/00-1A

Per fotocellule con ottica a 90° sostituire nel codice **MS** con **MP** (es.: **MS2/00-0A** --> **MP2/00-0A**)

For right angle optic sensors replace **MS** with **MP** in the code (ie.: **MS2/00-0A** --> **MP2/00-0A**)

## \* Uscite possibili / Available exits

<b>A:</b> uscita cavo assiale / axial cable exit (MS2/00-0A)
<b>B:</b> uscita cavo assiale con codolo / axial cable exit with tang (MS2/00-0B)
<b>C:</b> uscita cavo a 90° / right angle cable exit (MS2/00-0C)
<b>D:</b> uscita cavo a 90° con codolo / right angle cable exit with tang (MS2/00-0D)
<b>E:</b> uscita connettore M12 (versione con corpo plastico) / M12 plug cable exit (plastic housing) (MS2/00-0E)
<b>H:</b> uscita connettore M12 (versione con corpo metallico) / M12 plug cable exit (metal housing) (MS2/00-1H)
<b>K:</b> uscita connettore M12 a 90° / M12 right angle plug cable exit (MS2/00-0K)

## M18 MULTIVOLTAGE PHOTOELECTRIC SENSORS

FOTOCELLE M18 IN ALTERNATA SERIE MV/MQ  
AC M18 PHOTOELECTRIC SENSORS MV/MQ SERIES

Funzione Model	Portata Distance	Corpo Housing	3 fili / 3 wires NO	3 fili / 3 wires NC
Diffusione diretta Direct diffuse	100 mm	Plastica / Plastic	MV2/A0-0A	MV2/C0-0A
	200 mm	Plastica / Plastic	MV4/A0-0A	MV4/C0-0A
	400 mm	Plastica / Plastic	MV6/A0-0A	MV6/C0-0A
Soppressione di sfondo Background suppression	50 mm	Plastica / Plastic	MV0/A0-0A	MV0/C0-0A
	100 mm	Plastica / Plastic	MV1/A0-0A	MV1/C0-0A
Catarifrangente Retroreflective	4 m	Plastica / Plastic	MVC/A0-0A	MVC/C0-0A
Polarizzata Polarized	3 m	Plastica Plastic	MVP/A0-0A	MVP/C0-0A
Barriera Through beam	Emettitore Emitter	Plastica Plastic	MVE/00-0A	MVE/00-0A
	Ricevitore Receiver 16 m	Plastica / Plastic	MVR/A0-0A	MVR/C0-0A
	Ricevitore Receiver 32 m	Plastica / Plastic	MVD/A0-0A	MVD/C0-0A

Per fotocelle con ottica a 90° sostituire nel codice **MV** con **MQ** (es.: **MV2/A0-0A** --> **MQ2/A0-0A**)  
For right angle optic sensors replace **MV** with **MQ** in the code (ie.: **MV2/A0-0A** --> **MQ2/A0-0A**)

\* Uscite possibili / Available exits

<b>A:</b> uscita cavo assiale / axial cable exit (MV2/A0-0A)
<b>B:</b> uscita cavo assiale con codolo / axial cable exit with tang (MV2/A0-0B)
<b>C:</b> uscita cavo assiale a 90° / right angle cable exit (MV2/A0-0C)
<b>D:</b> uscita cavo assiale a 90° con codolo / right angle cable exit with tang (MV2/A0-0D)
<b>E:</b> uscita connettore M12 / M12 plug cable exit (MV2/A0-0E)
<b>K:</b> uscita connettore M12 a 90° / M12 right angle plug cable exit (MV2/A0-0K)

**FOTOCPELLULE RETTANGOLARI***CUBIC PHOTOELECTRIC SENSORS***FOTOCPELLULE CUBICHE - SERIE QX***CUBIC PHOTOELECTRIC SENSORS - QX SERIES*

Modello Model	Uscita Output	Logica / Logic	Tasteggio diretto Diffuse reflection	Catarifrangente Retroreflective	Polarizzata Polarized	Barriera / Through beam	
						Emettitore/Emitter	Ricevitore/Receiver
		NPN/PNP	300 mm	4 m	3 m	8 m	
Assiali / Axial	Cavo / Cable	NO	QX3/A0-1A	QXC/A0-1A	QXP/A0-1A	QXX/00-1A	QXR/A0-1A
		NC	QX3/C0-1A	QXC/C0-1A	QXP/C0-1A	QXX/00-1A	QXR/C0-1A
90°	Cavo / Cable	NO	QX3/A0-2A	QXC/A0-2A	QXP/A0-2A	QXX/00-2A	QXR/A0-2A
		NC	QX3/C0-2A	QXC/C0-2A	QXP/C0-2A	QXX/00-2A	QXR/C0-2A

Per fotocellule a connettore M8 sostituire la **A** finale con **F** (es.: **QX3/A0-1A** --> **QX3/A0-1F**)

For sensors with M8 plug replace **A** with **F** in the code (ie.: **QX3/A0-1A** --> **QX3/A0-1F**)

Per fotocellule a connettore M12 sostituire la **A** finale con **E** (es.: **QX3/A0-1A** --> **QX3/A0-1E**)

For sensors with M12 plug replace **A** with **E** in the code (ie.: **QX3/A0-1A** --> **QX3/A0-1E**)

**FOTOCPELLULE RETTANGOLARI - SERIE RX***RECTANGULAR PHOTOELECTRIC SENSORS - RX SERIES*

Funz. / Model	Portata Distance	10-30Vdc DECOUT		20-60Vdc / 20-253Vac	RELÈ / RELAY
		Non temporizzata No timer function	Temporizzata Timer function	Non temporizzata No timer function	Temporizzata Timer function
Sopp. di sfondo Background suppression	0,05...0,3 m	RXS/00-1A	RXS/0T-1A	RXS/00-3A	RXS/0T-3A
	0,25...1 m	RXL/00-1A	RXL/0T-1A	RXL/00-3A	RXL/0T-3A
Tasteggio diretto Diffuse reflection	1 m	RX6/00-1A	RX6/0T-1A	RX6/00-3A	RX6/0T-3A
	2 m	RX8/00-1A	RX8/0T-1A	RX8/00-3A	RX8/0T-3A
Catarifrangente Retroreflective	12 m	RXC/00-1A	RXC/0T-1A	RXC/00-3A	RXC/0T-3A
Polarizzata Polarized	6 m	RXP/00-1A	RXP/0T-1A	RXP/00-3A	RXP/0T-3A
Emettitore Emitter	/	/	/	RXE/00-3A	/
Emett. con check Emitt. with check	/	RXX/00-1A	/	/	/
Ricevitore Receiver	16 / 32 m	RXR/00-1A	RXR/0T-1A	RXR/00-3A	RXR/0T-3A

Per fotocellula con slitta di fissaggio sostituire la **A** con la **B** (es.: **RX6/00-1A** --> **RX6/00-1B**)

For sensor with fixing slide replace **A** with **B** (ie.: **RX6/00-1A** --> **RX6/00-1B**)

**FOTOCPELLULE MINIATURIZZATE - SERIE FE***MINIATURIZED PHOTOELECTRIC SENSORS - FE SERIES*

Funzione Model	Portata Distance	Cavo / Cable		Connettore M8 / M8 plug	
		NPN	PNP	NPN	PNP
Sopp. di sfondo Background suppression	500 mm	FERW/0N-0A	FERW/0P-0A	FERW/0N-0F	FERW/0P-0F
Tasteggio diretto Diffuse reflection	900 mm	FER8/0N-0A	FER8/0P-0A	FER8/0N-0F	FER8/0P-0F
Polarizzata Polarized	5 m	FERN/0N-0A	FERN/0P-0A	FERN/0N-0F	FERN/0P-0F
Barriera Through beam	15 m	FERHD/0N-0A	FERHD/0P-0A	FERHD/0N-0F	FERHD/0P-0F

## CUBIC PHOTOELECTRIC SENSORS

### FOTOCELLE COMPATTE - SERIE FG compact photoelectric sensors - fg series

Funzione Model	Portata Distance	Regol. Adj.	Cavo / Cable		Connettore M12 / M12 plug		Modelli AC AC models
			NPN	PNP	NPN	PNP	
Soppressione di sfondo Background suppression	300 mm	Si / Yes	FGRS/ON-0A	FGRS/OP-0A	FGRS/ON-0E	FGRS/OP-0E	FGRS/DT-0A
	500 mm	Si / Yes	FGRW/ON-0A	FGRW/OP-0A	FGRW/ON-0E	FGRW/OP-0E	FGRW/DT-0A
Polarizzata Polarized	9 m	Si / Yes	FGRN/ON-0A	FGRN/OP-0A	FGRN/ON-0E	FGRN/OP-0E	FGRN/DT-0A
Emettitore+Ricevitore Emitter+Receiver	20 m	No	FGRHZ/ON-0A	FGRHZ/OP-0A	FGRHZ/ON-0E	FGRHZ/OP-0E	/
		Si / Yes	FGRHD/ON-0A	FGRHD/OP-0A	FGRHD/ON-0E	FGRHD/OP-0E	FGRHD/DT-0A

Modelli speciali: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.  
Special models: could be subjected to delays in delivery terms or limits for the quantities to be ordered.

### FOTOCELLE RETTANGOLARI - SERIE BS/BV CUBIC PHOTOELECTRIC SENSORS - BS/BV series

Funzione Model	Portata Distance	Uscita Exit	Modelli DC - DECOUT DECOUT - DC models	Modelli AC - TRIAC AC models - TRIAC
Tasteggio diretto Diffuse reflection	100 mm	Cavo / Cable	BS2/00-0C	BV2/00-0C
		M12	BS2/00-0E	BV2/00-0E
	200 mm	Cavo / Cable	BS4/00-0C	BV4/00-0C
		M12	BS4/00-0E	BV4/00-0E
	400 mm	Cavo / Cable	BS6/00-0C	BV6/00-0C
		M12	BS6/00-0E	BV6/00-0E
1600 mm	Cavo / Cable	BS8/00-0C	BV8/00-0C	
	M12	BS8/00-0E	BV8/00-0E	
Catarifrangente Retroreflective	8 m	Cavo / Cable	BSC/00-0C	BVC/00-0C
		M12	BSC/00-0E	BVC/00-0E
Polarizzata Polarized	2,5 m	Cavo / Cable	BSP/00-0C	BVP/00-0C
		M12	BSP/00-0E	BVP/00-0E

## AMPLIFICATORI A FIBRE OTTICHE

## OPTICAL FIBRE AMPLIFIERS

Dimensioni <i>Dimensions</i>	Serie <i>Series</i>	Barra DIN <i>DIN rail</i>	Regolazione <i>Adjustment</i>	Conn. <i>Plug</i>	PNP <i>NO/NC</i>	NPN <i>NO/NC</i>
15x26x67 mm	FS1	No	Trimmer	Cavo / Cable	FS1/OP-C	FS1/ON-C
				M12	FS1/OP-E	FS1/ON-E
10X31X60 mm	FX3	Si / Yes	Trimmer	Cavo / Cable	FX3/OP-0A	FX3/ON-0A
				M8	FX3/OP-0F	FX3/ON-0F
10X31X60 mm	FX4	Si / Yes	Teach-in	Cavo / Cable	FX4/OP-0A	FX4/ON-0A
				M8	FX4/OP-0F	/
M18	SSF	No	Teach-in	Cavo / Cable	SSF/OP-0A	SSF/ON-0A
				M12	SSF/OP-0E	SSF/ON-0E

## MODELLI

## MODELS

Fibre in PMMA / PMMA Fibres										
Modello <i>Model</i>	Tipo <i>Type</i>	FS1 <i>(EX.G.=1)</i>	FX3 <i>(EX.G.=1)</i>	FX4 <i>(EX.G.=1)</i>	SSF <i>(EX.G.=1)</i>	Ø core <i>(mm)</i>	Tagliabili <i>Free-cut</i>	Lunghezza <i>Length</i>	Terminazione <i>Head shape</i>	Lente <i>Lens</i>
CF-CA2	Scanner	15 mm	70 mm	110 mm	15 mm	0,5	No	0,5-1 m	M4	No
CF-CA4	Scanner	15 mm	60 mm	80 mm	15 mm	0,5	No	0,5-1 m	M4 + sleeve	No
CF-RA4	P/R	30 mm	150 mm	250 mm	30 mm	0,5	No	0,5-1 m	M4 + sleeve	No
CF-RA7	P/R	30 mm	150 mm	250 mm	30 mm	0,5	No	0,5-1 m	M3	No
CF-CB1	Scanner	50 mm	200 mm	300 mm	50 mm	1	Si / Yes	1-2 m	M6	No
CF-CB3	Scanner	50 mm	200 mm	300 mm	50 mm	1	Si / Yes	1-2 m	M6 + sleeve	No
CF-RB4	P/R	120 mm	600 mm	900 mm	120 mm	1	Si / Yes	1-2 m	M4 + sleeve	No
CF-RB6	P/R	120 mm	600 mm	900 mm	120 mm	1	Si / Yes	1-2 m	M4	No
CF-RB9	P/R	1200 mm	8 m	10 m	1200 mm	1	Si / Yes	1-2 m	Ø 6 mm	Si / Yes
CF-RBA	P/R	1200 mm	8 m	10 m	1200 mm	1	Si / Yes	1-2 m	M7	Si / Yes
CF-CC1	Scanner	15 mm	70 mm	100 mm	15 mm	1	No	2 m	M6	Si / Yes
CF-RC6	P/R	100 mm	500 mm	500 mm	100 mm	1	No	2 m	M4	No
CF-RC9	P/R	1000 mm	6 m	8 m	1000 mm	1	No	2 m	Ø 6 mm	Si / Yes
CF-RCA	P/R	1000 mm	6 m	8 m	1000 mm	1	No	2 m	M7	Si / Yes

Fibre in vetro / Glass Fibres										
Modello <i>Model</i>	Tipo <i>Type</i>	FS1 <i>(EX.G.=1)</i>	FX3 <i>(EX.G.=1)</i>	FX4 <i>(EX.G.=1)</i>	SSF <i>(EX.G.=1)</i>	Ø core <i>(mm)</i>	Tagliabili <i>Free-cut</i>	Lunghezza <i>Length</i>	Terminazione <i>Head shape</i>	Lente <i>Lens</i>
CV-CB1	Scanner	50 mm	150 mm	150 mm	50 mm	1	No	1-2 m	M4	No
CV-CB3	Scanner	50 mm	150 mm	150 mm	50 mm	1	No	1-2 m	M4 + sleeve	No
CV-RB4	P/R	90 mm	600 mm	900 mm	90 mm	1	No	1-2 m	M4 + sleeve	No
CV-RB6	P/R	90 mm	600 mm	900 mm	90 mm	1	No	1-2 m	M4	No

Fibre in PMMA con accessori / PMMA Fibres with accessories										
Modello <i>Model</i>	Tipo <i>Type</i>	FS1 <i>(EX.G.=1)</i>	FX3 <i>(EX.G.=1)</i>	FX4 <i>(EX.G.=1)</i>	SSF <i>(EX.G.=1)</i>	Ø core <i>(mm)</i>	Tagliabili <i>Free-cut</i>	Lunghezza <i>Length</i>	Terminazione <i>Head shape</i>	Lente <i>Lens</i>
AF-ER4	P/R	600 mm	2 m	3 m	600 mm	1	Si / Yes	2 m**	/	Si / Yes
AF-ER5	P/R	1 m	3 m	5 m	1 m	1	Si / Yes	2 m**	/	Si / Yes
AF-ER6	P/R	3,5 m	6 m	8 m	3,5 m	1	Si / Yes	2 m**	/	Si / Yes
AF-ER7	P/R	1 m	6 m	8 m	1 m	1	Si / Yes	2 m**	/	Si / Yes

Fibre in Vetro con accessori / Glass Fibres with accessories										
Modello <i>Model</i>	Tipo <i>Type</i>	FS1 <i>(EX.G.=1)</i>	FX3 <i>(EX.G.=1)</i>	FX4 <i>(EX.G.=1)</i>	SSF <i>(EX.G.=1)</i>	Ø core <i>(mm)</i>	Tagliabili <i>Free-cut</i>	Lunghezza <i>Length</i>	Terminazione <i>Head shape</i>	Lente <i>Lens</i>
AF-FC1	Scanner	25 mm	30 mm	30 mm	25 mm	1	No	2 m**	Ø 6.5 mm	Si / Yes
AF-FC2	Scanner	45 mm	50 mm	50 mm	45 mm	1	No	2 m**	Ø 8.5 mm	Si / Yes
AF-ER1	P/R	1 m	4 m	6 m	1 m	1	No	2 m**	Ø 5 mm	Si / Yes
AF-ER2	P/R	3 m	8 m	10 m	3 m	1	No	2 m**	Ø 8.5 mm	Si / Yes
AF-ER3	P/R	3 m	14 m	16 m	3 m	1	No	2 m**	13 x 13 mm	Si / Yes

\*\* Lunghezze standard / Standard lengths



SERIE BX04/10  
BX04/10 series

Area	Numero Ottiche Optics number	Portata Distance	Risoluzione Resolution	Modello Model	Uscita Exit	NPN+PNP NO	NPN+PNP NC
90 mm	4	0,3...2 m	$\varnothing$ 35 <sup>(1)</sup> mm $\varnothing$ 25 <sup>(2)</sup> mm $\varnothing$ 15 <sup>(3)</sup> mm	Emettitore Emitter	M12	BX04S/00-HB	
					Cavo / Cable	BX04S/00-AB	
				Emett.+check Emitt.+check	M12	BX04S/X0-HB	
					Cavo / Cable	BX04S/X0-AB	
				Ricevitore Receiver	M12	BX04R/AD-HB	BX04R/CD-HB
					Cavo / Cable	BX04R/AD-AB	BX04R/CD-AB
	10	0,3...2 m	$\varnothing$ 15 <sup>(1)</sup> mm $\varnothing$ 7,5 <sup>(2)</sup> mm $\varnothing$ 5 <sup>(3)</sup> mm	Emettitore Emitter	M12	BX10S/00-HB	
					Cavo / Cable	BX10S/00-AB	
				Emett.+check Emitt.+check	M12	BX10S/X0-HB	
					Cavo / Cable	BX10S/X0-AB	
Ricevitore Receiver				M12	BX10R/AD-HB	BX10R/CD-HB	
				Cavo / Cable	BX10R/AD-AB	BX10R/CD-AB	
	0,3...4 m	$\varnothing$ 15 <sup>(1)</sup> mm $\varnothing$ 7,5 <sup>(2)</sup> mm $\varnothing$ 5 <sup>(3)</sup> mm	Emettitore Emitter	M12	BX10S/00-HB6X		
			Ricevitore Receiver	M12	BX10R/AD-HB6X		

KIT							
Area	Numero Ottiche Optics number	Portata Distance	Risoluzione Resolution	Modello Model	Uscita Exit	NPN+PNP NO	
90 mm	4	0,3...2 m	$\varnothing$ 35 <sup>(1)</sup> mm $\varnothing$ 25 <sup>(2)</sup> mm $\varnothing$ 15 <sup>(3)</sup> mm	Emettitore + Ricevitore Emitter + Receiver	M12	BX04SR/0A-HB	
					Cavo / Cable	BX04SR/0A-AB	
				Emett. check + Ricevitore Emitt. check+ Receiver	M12	BX04SR/XA-HB	
					Cavo / Cable	BX04SR/XA-AB	
				Emettitore + Ricevitore Emitter + Receiver	M12	BX10SR/0A-HB	
					Cavo / Cable	BX10SR/0A-AB	
	10	0,3...2 m	$\varnothing$ 15 <sup>(1)</sup> mm $\varnothing$ 7,5 <sup>(2)</sup> mm $\varnothing$ 5 <sup>(3)</sup> mm	Emett. check + Ricevitore Emitt. check+ Receiver	M12	BX10SR/XA-HB	
					Cavo / Cable	BX10SR/XA-AB	
				Emettitore + Ricevitore Emitter + Receiver	M12	BX10SR/0A-HB6X	

(1) Risoluzione garantita in qualsiasi punto dell'area / *Guaranteed resolution everywhere in the detection area*

(2) Risoluzione garantita nella parte centrale dell'area escludendo le zone buie

*Guaranteed resolution in the central part of the detection area with exclusion of the dark zone*

(3) Come nota (2), ma usando la regolazione di sensibilità / *As note (2), but with sensitivity adjustment*

## Area sensors

SERIE BX80  
BX80 SERIES

Corpo standard in PBT e ottica in PC PBT standard body with PC optic window					Ricevitore / Receiver	
Area	Tempo di risposta Response time	Portata Distance	Risoluzione Resolution	Emettitore Emitter	PNP NO/NC	NPN NO/NC
70 mm	10 ms	0...2 m	Ø 6 mm	BX80S/10-0H	BX80A/1P-0H	BX80A/1N-0H
		0,3...2 m	Ø 5 mm		BX80B/1P-0H	BX80B/1N-0H
		0,3...2,5 m	Ø 5 mm	BX80S/10-0H6X	BX80B/1P-0H6X	BX80B/1N-0H6X
		0...1,5 m	Ø 6 mm	BX80S/20-0H	BX80A/2P-0H	BX80A/2N-0H
	0,3...1,5 m	Ø 5 mm	BX80B/2P-0H		BX80B/2N-0H	
	3 ms	0...1 m	Ø 6 mm	BX80S/30-0H	BX80A/3P-0H	BX80A/3N-0H
		0,5...1 m	Ø 5 mm		BX80B/3P-0H	BX80B/3N-0H
	2 ms	30...600 mm	Ø 6 mm	BX80S/40-0H	BX80A/4P-0H	BX80A/4N-0H
		550...600 mm	Ø 3 mm		BX80B/4P-0H	BX80B/4N-0H
	2 ms	90...250 mm	Ø 2 mm	BX80S/50-0H	BX80A/5P-0H	BX80A/5N-0H
	10 ms	200...500 mm	1x70 mm	BX80S/50-0H3E	BX80B/5P-0H3E	BX80B/5N-0H3E

Corpo standard in PBT, ottica in PC + involucro in Alluminio PBT standard body, PC optic window + Aluminium enclosure					Ricevitore / Receiver	
Area	Tempo di risposta Response time	Portata Distance	Risoluzione Resolution	Emettitore Emitter	PNP NO/NC	NPN NO/NC
70 mm	10 ms	0...2 m	Ø 6 mm	BX80S/10-1H	BX80A/1P-1H	BX80A/1N-1H
		0,3...2 m	Ø 5 mm		BX80B/1P-1H	BX80B/1N-1H
		0,3...2,5 m	Ø 5 mm	BX80S/10-1H6X	BX80B/1P-1H6X	BX80B/1N-1H6X
		0...1,5 m	Ø 6 mm	BX80S/20-1H	BX80A/2P-1H	BX80A/2N-1H
	0,3...1,5 m	Ø 5 mm	BX80B/2P-1H		BX80B/2N-1H	
	3 ms	0...1 m	Ø 6 mm	BX80S/30-1H	BX80A/3P-1H	BX80A/3N-1H
		0,5...1 m	Ø 5 mm		BX80B/3P-1H	BX80B/3N-1H
	2 ms	30...600 mm	Ø 6 mm	BX80S/40-1H	BX80A/4P-1H	BX80A/4N-1H
		550...600 mm	Ø 3 mm		BX80B/4P-1H	BX80B/4N-1H
	2 ms	90...250 mm	Ø 2 mm	BX80S/50-1H	BX80A/5P-1H	BX80A/5N-1H
	10 ms	200...500 mm	1x70 mm	BX80S/50-1H3E	BX80B/5P-1H3E	BX80B/5N-1H3E

Corpo standard in PBT, ottica in vetro PBT standard body, glass optic window					Ricevitore / Receiver	
Area	Tempo di risposta Response time	Portata Distance	Risoluzione Resolution	Emettitore Emitter	PNP NO/NC	NPN NO/NC
70 mm	10 ms	0...2 m	Ø 6 mm	BX80S/10-2H	BX80A/1P-2H	BX80A/1N-2H
		0,3...2 m	Ø 5 mm		BX80B/1P-2H	BX80B/1N-2H
		0,3...2,5 m	Ø 5 mm	BX80S/10-2H6X	BX80B/1P-2H6X	BX80B/1N-2H6X
		0...1,5 m	Ø 6 mm	BX80S/20-2H	BX80A/2P-2H	BX80A/2N-2H
	0,3...1,5 m	Ø 5 mm	BX80B/2P-2H		BX80B/2N-2H	
	3 ms	0...1 m	Ø 6 mm	BX80S/30-2H	BX80A/3P-2H	BX80A/3N-2H
		0,5...1 m	Ø 5 mm		BX80B/3P-2H	BX80B/3N-2H
	2 ms	30...600 mm	Ø 6 mm	BX80S/40-2H	BX80A/4P-2H	BX80A/4N-2H
		550...600 mm	Ø 3 mm		BX80B/4P-2H	BX80B/4N-2H
	2 ms	90...250 mm	Ø 2 mm	BX80S/50-2H	BX80A/5P-2H	BX80A/5N-2H
	10 ms	200...500 mm	1x70 mm	BX80S/50-2H3E	BX80B/5P-2H3E	BX80B/5N-2H3E

Modelli con uscita cavo (2m): sostituire **A** a **H** nel codice ( BX80\*/\*\*-\***H** --> BX80\*/\*\*-\***A** )  
 Models with cable exit (2m): replace **H** with **A** in the code ( BX80\*/\*\*-\***H** --> BX80\*/\*\*-\***A** )

Modelli con uscita connettore M12 volante: sostituire **V** a **H** nel codice ( BX80\*/\*\*-\***H** --> BX80\*/\*\*-\***V** )  
 Models with M12 pig tail plug: replace **H** with **V** in the code ( BX80\*/\*\*-\***H** --> BX80\*/\*\*-\***V** )

Modelli speciali: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.  
 Special models: could be subjected to delays in delivery terms or limits for the quantities to be ordered.

## AX80 → BX80 equivalences

### EMETTITORI EMITTERS

AX80E/00-EA00 → BX80E/10-0H	AX80S/00-EA00 → BX80S/10-0H	AX80S/00-AA00 → BX80S/10-0A
AX80E/00-EA6X → BX80E/10-0H6X	AX80S/00-EA00I → BX80S/10-0HI	AX80S/00-AB00 → BX80S/20-0A
AX80E/00-EB00 → BX80E/20-0H	AX80S/00-EA006X → BX80S/10-0H6X	AX80S/00-AC00 → BX80S/30-0A
AX80E/00-EC00 → BX80E/30-0H	AX80S/00-EB00 → BX80S/20-0H	AX80S/00-AD00 → BX80S/40-0A
AX80E/00-ED00 → BX80E/40-0H	AX80S/00-EB00I → BX80S/20-0HI	AX80S/00-AE00 → BX80S/50-0A
AX80E/00-EE00 → BX80E/50-0H	AX80S/00-EB00MD → BX80S/20-0H	AX80S/00-KC00 → BX80S/30-1A
AX80E/00-KA00 → BX80E/10-1A	AX80S/00-EB008R → BX80S/20-0H8R	AX80S/00-KC00MD → BX80S/30-1A
AX80E/00-KA00MD → BX80E/10-1A	AX80S/00-EC00 → BX80S/30-0H	AX80S/00-KD00 → BX80S/40-1A
AX80E/00-KA006X → BX80E/10-1A6X	AX80S/00-ED00 → BX80S/40-0H	AX80S/00-KE00 → BX80S/50-1A
AX80E/00-KB00 → BX80E/20-1A	AX80S/00-ED00I → BX80S/40-0HI	
AX80E/00-KC00 → BX80E/30-1A	AX80S/00-EE00 → BX80S/50-0H	
AX80E/00-KD00 → BX80E/40-1A	AX80S/00-EE003E → BX80S/50-0H3E	
AX80E/00-KE00 → BX80E/50-1A	AX80S/00-KA00 → BX80S/10-1A	
AX80E/00-VA00 → BX80E/10-2H	AX80S/00-KB00 → BX80S/20-1A	

### RICEVITORI RECEIVERS

AX80R/0N-EA00 → BX80A/1N-0H	AX80R/0P-EB3BI → BX80B/2P-0HI	AX80R/0A-AC00 → n. d. / n. a.
AX80R/0N-EA00I → BX80A/1N-0HI	AX80R/0P-EB3BMD → BX80B/2P-0H	n. d. / n. a.
AX80R/0N-EA10 → BX80A/1N-0H2D	AX80R/0P-EB3B8R → BX80B/2P-0H8R	AX80R/0A-AC10 → n. d. / n. a.
AX80R/0N-EA3B → BX80B/1N-0H	AX80R/0P-EC00 → BX80A/3P-0H	n. d. / n. a.
AX80R/0N-EB00 → BX80A/2N-0H	AX80R/0P-EC10 → BX80A/3P-0H10	AX80R/0A-AA10 → n. d. / n. a.
AX80R/0N-EB10 → BX80A/2N-0H2D	AX80R/0P-EC3B → BX80B/3P-0H	n. d. / n. a.
AX80R/0N-EC00 → BX80A/3N-0H	AX80R/0P-EC53B → n. d. / n. a.	AX80R/0A-AB00 → n. d. / n. a.
AX80R/0N-EC10 → BX80A/3N-0H2D	AX80R/0P-ED00 → BX80A/4P-0H	n. d. / n. a.
AX80R/0N-ED00 → BX80A/4N-0H	AX80R/0P-ED05 → BX80A/4P-0H05	AX80R/0A-AB10 → n. d. / n. a.
AX80R/0N-ED10 → BX80A/4N-0H2D	AX80R/0P-ED10 → BX80A/4P-0H2D	n. d. / n. a.
AX80R/0N-EE00 → BX80A/5N-0H	AX80R/0P-ED3B → BX80B/4P-0H	AX80R/0A-AA00 → n. d. / n. a.
AX80R/0N-EE05 → BX80A/5N-0H05	AX80R/0P-EE00 → BX80A/5P-0H	n. d. / n. a.
AX80R/0N-EE10 → BX80A/5N-0H2D	AX80R/0P-EE003E → BX80A/5P-0H3E	AX80R/0A-AD00 → n. d. / n. a.
AX80R/0N-KA00 → BX80A/1N-1A	AX80R/0P-EE02 → BX80A/5P-0H02	n. d. / n. a.
AX80R/0N-KA10 → BX80A/1N-1A2D	AX80R/0P-EE05 → BX80A/5P-0H05	AX80R/0A-AD10 → n. d. / n. a.
AX80R/0N-KB00 → BX80A/2N-1A	AX80R/0P-EE10 → BX80A/5P-0H2D	n. d. / n. a.
AX80R/0N-KB10 → BX80A/2N-1A2D	AX80R/0P-KA00 → BX80A/1P-1A	AX80R/0A-AE00 → n. d. / n. a.
AX80R/0N-KC00 → BX80A/3N-1A	AX80R/0P-KA00I → BX80A/1P-1AI	n. d. / n. a.
AX80R/0N-KC10 → BX80A/3N-1A2D	AX80R/0P-KA00MD → BX80A/1P-1A	AX80R/0A-KA00 → n. d. / n. a.
AX80R/0N-KD00 → BX80A/4N-1A	AX80R/0P-KA10 → BX80A/1P-1A2D	n. d. / n. a.
AX80R/0N-KD10 → BX80A/4N-1A2D	AX80R/0P-KB00 → BX80A/2P-1A	AX80R/0N-AE103B → n. d. / n. a.
AX80R/0N-KE00 → BX80A/5N-1A	AX80R/0P-KB10 → BX80A/2P-1A2D	AX80R/0P-EB00MD → BX80A/2P-0H
AX80R/0N-KE10 → BX80A/5N-1A2D	AX80R/0P-KC00 → BX80A/3P-1A	AX80R/0P-EB10 → BX80A/2P-0H2D
AX80R/0P-EA00 → BX80A/1P-0H	AX80R/0P-KC00MD → BX80A/3P-1A	AX80R/0P-EB3B → BX80B/2P-0H
AX80R/0P-EA00I → BX80A/1P-0HI	AX80R/0P-KC10 → BX80A/3P-1A2D	AX80R/0P-VA00 → BX80A/1P-2H
AX80R/0P-EA006X → BX80A/1P-0H6X	AX80R/0P-KD00 → BX80A/4P-1A	AX80Z/0P-EC10 → BX80C/3P-0H2D
AX80R/0P-EA10 → BX80A/1P-0H2D	AX80R/0P-KD10 → BX80A/4P-1A2D	AX80R/0P-EB00 → BX80A/2P-0H
AX80R/0P-EA3B → BX80B/1P-0H	AX80R/0P-KE00 → BX80A/5P-1A	AX80R/0P-KF00 → n. d. / n. a.
AX80R/0P-EA6X → BX80B/1P-0H6X	AX80R/0P-KE10 → BX80A/5P-1A2D	

n.d.: non disponibile / n. a.: not available

## AREA SENSORS

## SERIE AX100

## AX100 SERIES

Area	Tempo di risposta Response time	Portata Distance	Risoluzione Resolution	Emettitore Emitter	PNP NO/NC	NPN NO/NC	NPN+Analogica NPN+Analogue
150 mm	10 ms	2 m	Ø 5-12 mm	AX100S/00-EA00	AX100R/0P-EA**	AX100R/0N-EA**	/
				AX100S/00-AA00	/	/	AX100R/0A-AA**
	3 ms	1 m	Ø 4-8 mm	AX100S/00-EC00	AX100R/0P-EC**	AX100R/0N-EC**	/
				AX100S/00-AC00	/	/	AX100R/0A-AC**
10 ms	4 m	Ø 5-12 mm	AX100S/00-EW00	AX100R/0P-EW00	/	/	

## SERIE AX500 - MODELLI STANDARD

## AX500 SERIES - STANDARD MODELS

Area	Portata Distance	Emettitori Emitters		Ricevitori Receivers				
		Emettitore Emitter	Emettitore+reg. Emitter+sens. adj.	NPN NO/NC	PNP NO/NC	NPN+Parallele NPN+parallele	PNP+Parallele PNP+parallele	NPN+Analogica NPN+Analogue
350 mm	2 m	AX500E/08-A0	AX500S/08-A0	AX500N/08-A0	AX500P/08-A0	AX500N/08-AP	AX500P/08-AP	AX500N/08-AA
	4 m	AX500E/08-B0	AX500S/08-B0	AX500N/08-B0	AX500P/08-B0	AX500N/08-BP	AX500P/08-BP	AX500N/08-BA
450 mm	2 m	AX500E/10-A0	AX500S/10-A0	AX500N/10-A0	AX500P/10-A0	AX500N/10-AP	AX500P/10-AP	AX500N/10-AA
	4 m	AX500E/10-B0	AX500S/10-B0	AX500N/10-B0	AX500P/10-B0	AX500N/10-BP	AX500P/10-BP	AX500N/10-BA
550 mm	2 m	AX500E/12-A0	AX500S/12-A0	AX500N/12-A0	AX500P/12-A0	AX500N/12-AP	AX500P/12-AP	AX500N/12-AA
	4 m	AX500E/12-B0	AX500S/12-B0	AX500N/12-B0	AX500P/12-B0	AX500N/12-BP	AX500P/12-BP	AX500N/12-BA
650 mm	2 m	AX500E/14-A0	AX500S/14-A0	AX500N/14-A0	AX500P/14-A0	AX500N/14-AP	AX500P/14-AP	AX500N/14-AA
	4 m	AX500E/14-B0	AX500S/14-B0	AX500N/14-B0	AX500P/14-B0	AX500N/14-BP	AX500P/14-BP	AX500N/14-BA
750 mm	2 m	AX500E/16-A0	AX500S/16-A0	AX500N/16-A0	AX500P/16-A0	AX500N/16-AP	AX500P/16-AP	AX500N/16-AA
	4 m	AX500E/16-B0	AX500S/16-B0	AX500N/16-B0	AX500P/16-B0	AX500N/16-BP	AX500P/16-BP	AX500N/16-BA

## SERIE AX500 - MODELLI MASTER-SLAVE

## AX500 SERIES - MASTER-SLAVE MODELS

Area	Portata Distance	Emettitori Emitters		Ricevitori Receivers				
		Emettitore Emitter	Emettitore+reg. Emitter+sens. adj.	NPN NO/NC	PNP NO/NC	NPN+Parallele NPN+parallele	PNP+Parallele PNP+parallele	NPN+Analogica NPN+Analogue
350 mm	2 m	AX500E/08-C0	AX500S/08-C0	AX500N/08-C0	AX500P/08-C0	AX500N/08-CP	AX500P/08-CP	AX500N/08-CA
	4 m	AX500E/08-D0	AX500S/08-D0	AX500N/08-D0	AX500P/08-D0	AX500N/08-DP	AX500P/08-DP	AX500N/08-DA
450 mm	2 m	AX500E/10-C0	AX500S/10-C0	AX500N/10-C0	AX500P/10-C0	AX500N/10-CP	AX500P/10-CP	AX500N/10-CA
	4 m	AX500E/10-D0	AX500S/10-D0	AX500N/10-D0	AX500P/10-D0	AX500N/10-DP	AX500P/10-DP	AX500N/10-DA
550 mm	2 m	AX500E/12-C0	AX500S/12-C0	AX500N/12-C0	AX500P/12-C0	AX500N/12-CP	AX500P/12-CP	AX500N/12-CA
	4 m	AX500E/12-D0	AX500S/12-D0	AX500N/12-D0	AX500P/12-D0	AX500N/12-DP	AX500P/12-DP	AX500N/12-DA
650 mm	2 m	AX500E/14-C0	AX500S/14-C0	AX500N/14-C0	AX500P/14-C0	AX500N/14-CP	AX500P/14-CP	AX500N/14-CA
	4 m	AX500E/14-D0	AX500S/14-D0	AX500N/14-D0	AX500P/14-D0	AX500N/14-DP	AX500P/14-DP	AX500N/14-DA
750 mm	2 m	AX500E/16-C0	AX500S/16-C0	AX500N/16-C0	AX500P/16-C0	AX500N/16-CP	AX500P/16-CP	AX500N/16-CA
	4 m	AX500E/16-D0	AX500S/16-D0	AX500N/16-D0	AX500P/16-D0	AX500N/16-DP	AX500P/16-DP	AX500N/16-DA

Modelli speciali: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.

Special models: could be subjected to delays in delivery terms or limits for the quantities to be ordered.

## MULTIBeam safety control unit [cat.2]

SERIE SBCR02 - UNITÀ DI CONTROLLO CON 2 USCITE DI SICUREZZA A RELÈ  
*SBCR02 series - safety control unit with 2 relays output*

Ottiche Optics	Alimentazione Supply	Riavvio / Restart Man. - Autom.	EDM	Muting + Override	Modello Model	
1	24Vac	Si / Yes	Si / Yes	NO	SBCR02/A-10	
	48Vac	Si / Yes	Si / Yes	NO	SBCR02/D-10	
	115Vac	Si / Yes	Si / Yes	NO	SBCR02/H-10	
	230Vac	Si / Yes	Si / Yes	NO	SBCR02/Z-10	
	24Vdc	Si / Yes	Si / Yes	NO	SBCR02/S-10	
Si / Yes		Si / Yes	Si / Yes	Si / Yes	SBCR02/S-1M	muting
2	24Vac	Si / Yes	Si / Yes	NO	SBCR02/A-20	
	48Vac	Si / Yes	Si / Yes	NO	SBCR02/D-20	
	115Vac	Si / Yes	Si / Yes	NO	SBCR02/H-20	
	230Vac	Si / Yes	Si / Yes	NO	SBCR02/Z-20	
	24Vdc	Si / Yes	Si / Yes	NO	SBCR02/S-20	
Si / Yes		Si / Yes	Si / Yes	Si / Yes	SBCR02/S-2M	muting
3	24Vac	Si / Yes	Si / Yes	NO	SBCR02/A-30	
	48Vac	Si / Yes	Si / Yes	NO	SBCR02/D-30	
	115Vac	Si / Yes	Si / Yes	NO	SBCR02/H-30	
	230Vac	Si / Yes	Si / Yes	NO	SBCR02/Z-30	
	24Vdc	Si / Yes	Si / Yes	NO	SBCR02/S-30	
Si / Yes		Si / Yes	Si / Yes	Si / Yes	SBCR02/S-3M	muting
4	24Vac	Si / Yes	Si / Yes	NO	SBCR02/A-40	
	48Vac	Si / Yes	Si / Yes	NO	SBCR02/D-40	
	115Vac	Si / Yes	Si / Yes	NO	SBCR02/H-40	
	230Vac	Si / Yes	Si / Yes	NO	SBCR02/Z-40	
	24Vdc	Si / Yes	Si / Yes	NO	SBCR02/S-40	
Si / Yes		Si / Yes	Si / Yes	Si / Yes	SBCR02/S-4M	muting

Moduli esclusione ottica: **SB100** (per i modelli senza muting/for models without muting)

Optic exclusion models: **SB101** (per i modelli con muting/for models with muting)

Sensori: **SH2** (M18 - Sn = 10 m)

Sensors: **TH2** (M30 - Sn = 30 m)

**TH4** (M30 - Sn = 60 m)

**SBA** (2/3/4 raggi/beams - Sn fino a / up to 60 m)

SERIE SBCR03 - UNITÀ DI CONTROLLO CON 2 USCITE DI SICUREZZA STATICHE pnp - 500MA  
*SBCR03 series - safety control unit with 2 pnp - 500mA static outputs*

Ottiche Optics	Alimentazione Supply	Riavvio / Restart Man. - Autom.	EDM	Muting + Override	Modello Model
Fino a 6 Up to 6	24Vdc	Si / Yes	Si / Yes	NO	SBCR03/S-A0
				Muting Doppio Double Muting	SBCR03/S-AM

Sensori: **SH2** (M18 - Sn = 10 m)

Sensors: **TH2** (M30 - Sn = 30 m)

**TH4** (M30 - Sn = 60 m)

**SBA** (2/3/4 raggi/beams - Sn fino a / up to 60 m)

*safety sensors* (cat.2)**SERIE SH/TH MONORAGGIO**  
*SH/TH series monobeam*

Dimensione <i>Dimension</i>	Portata <i>Distance</i>	Contenitore <i>Housing</i>	Uscita <i>Output</i>	Emettitore <i>Emitter</i>	Ricevitore <i>Receiver</i>
M18	10 m	Plastico <i>Plastic</i>	M12	SH2/E-0E	SH2/R-0E
			M12 A 90°	SH2/E-0K	SH2/R-0K
		Metallico <i>Metal</i>	M12	SH2/E-1H	SH2/R-1H
			M12 A 90°	SH2/E-1K	SH2/R-1K
M30	30 m	Metallico <i>Metal</i>	M12 A 90°	TH2/E-K	TH2/R-K
			Elettrovalvola / Valve	TH2/E-Y	TH2/R-Y
	60 m	Metallico <i>Metal</i>	M12 A 90°	TH4/E-K	TH4/R-K
			Elettrovalvola / Valve	TH4/E-Y	TH4/R-Y

Unità di controllo / *Control units*: SBCR02/\*-\*\*, SBCR03/\*-\*\*

Modelli speciali: possono presentare limitazioni nei termini di consegna o quantità minime ordinabili.

*Special models: could be subjected to delays in delivery terms or limits for the quantities to be ordered.***SERIE SBA PLURIRAGGIO**  
*SBA series MULTIBEAM*

Portata <i>Distance</i>	Ottiche <i>Optics</i>	Uscita <i>Output</i>	Emettitore <i>Emitter</i>	Ricevitore <i>Receiver</i>	Centralina utilizzabile <i>Control units</i>
10 m	2	PG11	SBAE/2B-P	SBAR/2B-P	SBCR02/*-2* - SBCR03/S-A*
	3	PG11	SBAE/3B-P	SBAR/3B-P	SBCR02/*-3*
	4	PG11	SBAE/4B-P	SBAR/4B-P	SBCR02/*-4*
	2	PG11	SBAS/2B-P	SBAT/2B-P	SBCR02/S-1* - SBCR03/S-A*
40 m	3	PG11	SBAS/3B-P	SBAT/3B-P	SBCR03/S-A*
	4	PG11	SBAS/4B-P	SBAT/4B-P	SBCR02/S-2* - SBCR03/S-A*
	3	PG11	SBAS/3D-P	SBAT/3D-P	SBCR03/S-A*
	4	PG11	SBAS/4D-P	SBAT/4D-P	SBCR02/S-2* - SBCR03/S-A*
60 m	2	PG11	SBAE/2E-P	SBAR/2E-P	SBCR02/*-2* - SBCR03/S-A*
	3	PG11	SBAE/3E-P	SBAR/3E-P	SBCR02/*-3*
	4	PG11	SBAE/4E-P	SBAR/4E-P	SBCR02/*-4*
	2	PG11	SBAS/2E-P	SBAT/2E-P	SBCR02/S-1* - SBCR03/S-A*

Per i modelli con uscita con connettore Hirschmann 7 poli (**CSK/07-01**) sostituire nel codice **P** con **W**  
(SBA\*/\*\*-P --> SBA\*/\*\*-W)*For models with Hirschmann 7 poles connector output (CSK/07-01) in the code replace P with W*  
(SBA\*/\*\*-P --> SBA\*/\*\*-W)

SERIE SBH  
SBH SERIES

Portata Distance	Risoluzione Resolution	Altezza Height	Emittitore A Emitter	Emittitore D Emitter	Ricevitore B Receiver	Ricevitore C Receiver
0...6 m	30 mm	150 mm	SBHE/3A-NH	---	SBHR/BA-NH	---
		300 mm	SBHE/3B-NH	SBHE/3B-SH	SBHR/BB-NH	SBHR/BB-SH
		450 mm	SBHE/3C-NH	SBHE/3C-SH	SBHR/BC-NH	SBHR/BC-SH
		600 mm	SBHE/3D-NH	SBHE/3D-SH	SBHR/BD-NH	SBHR/BD-SH
		750 mm	SBHE/3E-NH	SBHE/3E-SH	SBHR/BE-NH	SBHR/BE-SH
		900 mm	SBHE/3F-NH	SBHE/3F-SH	SBHR/BF-NH	SBHR/BF-SH
		1050 mm	SBHE/3G-NH	SBHE/3G-SH	SBHR/BG-NH	SBHR/BG-SH
		1200 mm	SBHE/3H-NH	SBHE/3H-SH	SBHR/BH-NH	SBHR/BH-SH
		1350 mm	SBHE/3L-NH	SBHE/3L-SH	SBHR/BL-NH	SBHR/BL-SH
		1500 mm	SBHE/3M-NH	SBHE/3M-SH	SBHR/BM-NH	SBHR/BM-SH
		1650 mm	SBHE/3N-NH	SBHE/3N-SH	SBHR/BN-NH	SBHR/BN-SH
1800 mm	SBHE/3O-NH	SBHE/3O-SH	SBHR/BO-NH	SBHR/BO-SH		
2,5...19 m	30 mm	150 mm	SBHE/BA-NH	---	SBHR/BA-NH	---
		300 mm	SBHE/BB-NH	SBHE/BB-SH	SBHR/BB-NH	SBHR/BB-SH
		450 mm	SBHE/BC-NH	SBHE/BC-SH	SBHR/BC-NH	SBHR/BC-SH
		600 mm	SBHE/BD-NH	SBHE/BD-SH	SBHR/BD-NH	SBHR/BD-SH
		750 mm	SBHE/BE-NH	SBHE/BE-SH	SBHR/BE-NH	SBHR/BE-SH
		900 mm	SBHE/BF-NH	SBHE/BF-SH	SBHR/BF-NH	SBHR/BF-SH
		1050 mm	SBHE/BG-NH	SBHE/BG-SH	SBHR/BG-NH	SBHR/BG-SH
		1200 mm	SBHE/BH-NH	SBHE/BH-SH	SBHR/BH-NH	SBHR/BH-SH
		1350 mm	SBHE/BL-NH	SBHE/BL-SH	SBHR/BL-NH	SBHR/BL-SH
		1500 mm	SBHE/BM-NH	SBHE/BM-SH	SBHR/BM-NH	SBHR/BM-SH
		1650 mm	SBHE/BN-NH	SBHE/BN-SH	SBHR/BN-NH	SBHR/BN-SH
1800 mm	SBHE/BO-NH	SBHE/BO-SH	SBHR/BO-NH	SBHR/BO-SH		

A: Emittitore standard / Standard emitter

B: Ricevitore standard / Standard receiver

C: Ricevitore per connessioni in cascata o per connessione a pulsante di RESET  
Cascadable receiver or connections to RESET button

D: Emittitore per connessioni in cascata / Cascadable emitter

Cavi di connessione / Connection cables

CD12M/0M-020A6	2 m	Assiale / Axial
CD12M/0M-050A6	5 m	Assiale / Axial
CD12M/0M-100A6	10 m	Assiale / Axial
CD12M/0M-050A6	5 m	Radiale / Right Angle

Cavo di connessione pulsante di RESET / RESET button connection cables

CD12M/0M-050B6	2 m	Assiale / Axial
CD12M/0M-150B6	5 m	Assiale / Axial

Cavi di connessione per cascate / Cascadable connection cables

CDP12/0D-005AA8F	0,5 m	Assiale / Axial
CDP12/0D-015AA8F	1,5 m	Assiale / Axial
CDP12/0D-030AA8F	3 m	Assiale / Axial

*SAFETY LIGHT GRID* (CAT.4)**SERIE SBM**  
*SBM SERIES*

Altezza Height [mm]	Modelli Models	Risoluzione e distanza Resolution and distance		
		14 mm	14 mm	30 mm
		Ø 2,5 m	1 - 5 m	Ø 6 m
300	Emettitore / Emitter	SBME/AB-0H	SBME/AB-0H	SBME/BB-0H
	Ricevitore / Receiver	SBMR/2B-0H	SBMR/AB-0H	SBMR/BB-0H
450	Emettitore / Emitter	SBME/AC-0H	SBME/AC-0H	SBME/BC-0H
	Ricevitore / Receiver	SBMR/2C-0H	SBMR/AC-0H	SBMR/BC-0H
600	Emettitore / Emitter	SBME/AD-0H	SBME/AD-0H	SBME/BD-0H
	Ricevitore / Receiver	SBMR/2D-0H	SBMR/AD-0H	SBMR/BD-0H
750	Emettitore / Emitter	SBME/AE-0H	SBME/AE-0H	SBME/BE-0H
	Ricevitore / Receiver	SBMR/2E-0H	SBMR/AE-0H	SBMR/BE-0H
900	Emettitore / Emitter	SBME/AF-0H	SBME/AF-0H	SBME/BF-0H
	Ricevitore / Receiver	SBMR/2F-0H	SBMR/AF-0H	SBMR/BF-0H
1050	Emettitore / Emitter	SBME/AG-0H	SBME/AG-0H	SBME/BG-0H
	Ricevitore / Receiver	SBMR/2G-0H	SBMR/AG-0H	SBMR/BG-0H
1200	Emettitore / Emitter	SBME/AH-0H	SBME/AH-0H	SBME/BH-0H
	Ricevitore / Receiver	SBMR/2H-0H	SBMR/AH-0H	SBMR/BH-0H

**Cavi di connessione / Connection cables**

CD12M/0M-020A6	2 m	Assiale / Axial
CD12M/0M-050A6	5 m	Assiale / Axial
CD12M/0M-100A6	10 m	Assiale / Axial
CD12M/0M-050A6	5 m	Radiale / Right Angle



### CONNETTORI / connectors

Connettore Plug	Nr. Poli / Wires	Led	Assiale Axial	90°	Lunghezza (m) Length (m)
M8	3	No	CD08/OA-***A1	CD08/OA-***C1	2 - 5 - 7 - 10
	4	No	CD08/OB-***A1	CD08/OB-***C1	
M12	3 poli / 3 wires NO	No	CD12M/AA-***A1	CD12M/AA-***C1	2 - 5 - 7 - 10
	3 poli / 3 wires NC	No	CD12M/CA-***A1	CD12M/CA-***C1	
	4 poli / 4 wires	No	CD12M/OB-***A1	CD12M/OB-***C1	
M12	3 poli / 3 wires NO-NPN	2 led / 2 leds	/	CD12M/NA-***C1	2 - 5 - 7 - 10
	3 poli / 3 wires NO-PNP	2 led / 2 leds	/	CD12M/PA-***C1	
	4 poli / 4 wires NO/NC -PNP	2 led / 2 leds	/	CD12M/VB-***C1	
	4 poli / 4 wires DECOUT	Bi - led	/	CD12M/DB-***C1	

\*\*\*=020 (2 m); \*\*\*=050 (5 m); \*\*\*=070 (7 m); \*\*\*=100 (10 m)

### RIFLETTORI / REFLECTORS

CARTA RIFRANGENTE / self-adhesive paper	RL 100
CARTA RIFRANGENTE / self-adhesive paper	RL 100D
Ø 22 mm	RL 102
Ø 32 mm	RL 103
Ø 41 mm	RL 104
90x40 mm	RL 105
182x42 mm	RL 106G
105x100 mm	RL 107
Ø 70 mm con fissaggio / with fixing screw	RL 109
Ø 80 mm	RL 110
47x23 mm	RL 111G
73x19 mm	RL 112G
61x51 mm	RL 113G
61x41 mm	RL 116
60x82 mm per LASER / for laser	RL 201
60x51 mm per LASER / for laser	RL 202
60x19,5 mm per LASER / for laser	RL 203
32x20 mm per LASER / for laser	RL 204

### STAFFE / brackets

SUPPORTO ORIENTABILE Ø 18 / Ø 18 plastic swing bracket	ST 02
STAFFA Ø 12 ASSIALE / Ø 12 metal axial mounting bracket	ST 12-A
STAFFA Ø 12 90° / Ø 12 metal right angle mounting bracket	ST 12-C
STAFFA Ø 18 ASSIALE / Ø 18 metal axial mounting bracket	ST 18-A
STAFFA Ø 18 90° / Ø 18 metal right angle mounting bracket	ST 18-C
STAFFA Ø 30 ASSIALE / Ø 30 metal axial mounting bracket	ST 30-A
STAFFA Ø 30 90° / Ø 30 metal right angle mounting bracket	ST 30-C
STAFFA DI FISSAGGIO LATERALE SERIE RX / Side mounting bracket RX Series	ST 81
Supp. da asta cilindrica per cat. / mounting bracket for refl. (RL110; 116; 113G)	STC 00
Supp. da asta cilindrica per sensori Ø 18 / mounting bracket for sensors Ø 18	STC 18
Supp. da asta cilindrica per sensori cubici / mounting bracket for cubic sensors	STC 80



Micro Detectors

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微波光电部专业代理经销高频、微波、光纤、光电元器件、组件、部件、模块、整机；电磁兼容元器件、材料、设备；微波 CAD、EDA 软件、开发测试仿真工具；微波、光纤仪器仪表。欢迎国外高科技微波、光纤厂商将优秀产品介绍到中国、共同开拓市场。长期大量现货专业批发高频、微波、卫星、光纤、电视、CATV 器件：晶振、VCO、连接器、PIN 开关、变容二极管、开关二极管、低噪晶体管、功率电阻及电容、放大器、功率管、MMIC、混频器、耦合器、功分器、振荡器、合成器、衰减器、滤波器、隔离器、环行器、移相器、调制解调器；光电子器件和组件：红外发射管、红外接收管、光电开关、光敏管、发光二极管和发光二极管组件、半导体激光二极管和激光器组件、光电探测器和光接收组件、光发射接收模块、光纤激光器和光放大器、光调制器、光开关、DWDM 用光发射和接收器件、用户接入系统光收发器件与模块、光纤连接器、光纤跳线/尾纤、光衰减器、光纤适配器、光隔离器、光耦合器、光环行器、光复用器/转换器；无线收发芯片和模组、蓝牙芯片和模组。MRFXX、三菱 MOTOROLA、爱立信、ASI、富士通等军民用射频产品。惠普 Hp、安捷伦 Agilent 全系列高频放大管，微波集成电路 IC，混频管，PIN 管，肖特基管，MMIC，HEMT 等元器件。可能是惠普 Hp 安捷伦 Agilent 全系列产品现货最多，品类最全，价格最低的一家。竭诚为你服务，期待与你合作。长期以来真正坚持信誉第一，诚实为本！专业现货批发：Hp 惠普（Agilent 安捷伦 PHILIPSNEC、MOTOROLA、TOSHIBA、RFMICRO、HITTE、TYCO 等全系列高频放大管、射频管、微波集成电路 IC、PIN 管、混频管、肖特基管二、三级管等等。为 Hp 惠普 Agilent 安捷伦、PHILIPS 全系列国内经销商。

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