

Fotocellule M18 con regolazione laterale - DC serie SS-SP

M18 photoelectric sensors with side sens. adjustment - DC SS-SP series



Caratteristiche principali Main features

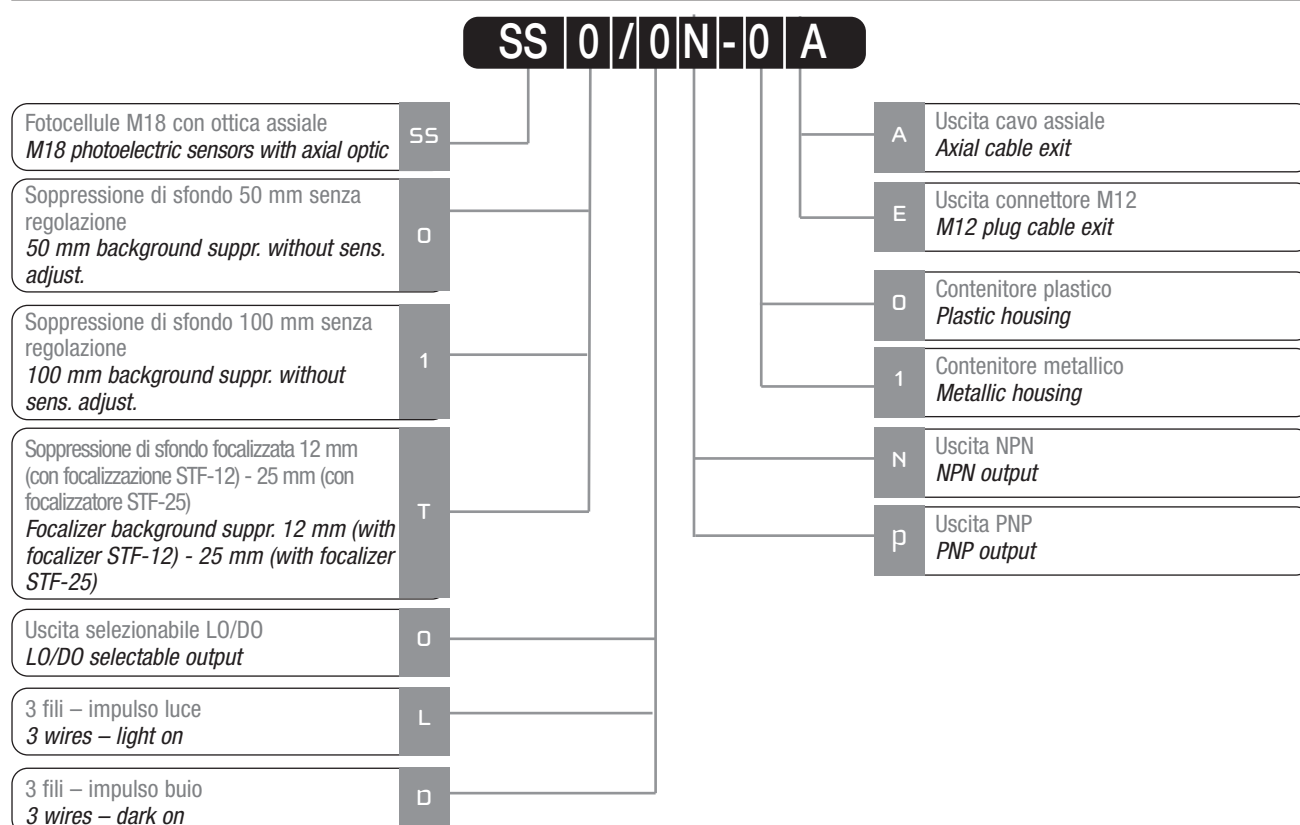
- > Modelli con regolazione laterale con ottica assiale ed a 90°
> *Models with side sens. adjustment on axial and right angle optic*
- > Stato dell'uscita: impulso luce / impulso buio selezionabile
> *LO/DO selectable output*
- > Grado di protezione IP67 per tutti i modelli
> *IP67 protection degree for all models*

Disponibili, su richiesta, modelli ATEX, cat. 3
ATEX models, cat. 3, available on request

- > Indicatore LED su tutti i modelli
> *LED status indicator for all versions*
- > Totalmente protetti contro danneggiamenti di tipo elettrico
> *Complete protection against electrical damages*
- > Approvazioni: CE e cULus listed
> *Approvals: CE and cULus listed*

Descrizione del codice - Code structure

> Soppressione di sfondo - *Background suppression*

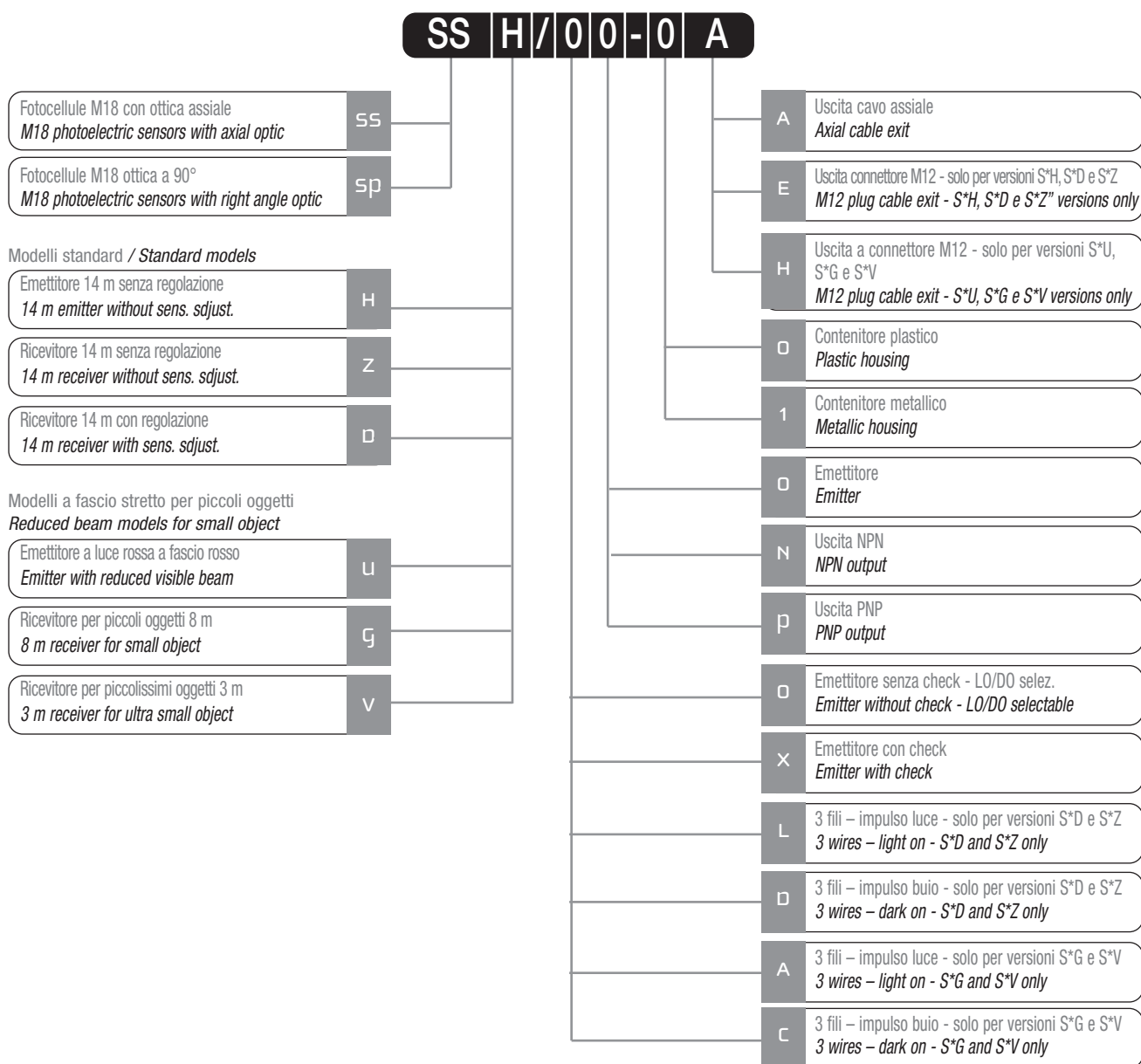


> Diffusione diretta e catarifrangente - Diffuse reflection and retro-reflective



⁽¹⁾ Versione speciale con regolazione, variante 3X / *Special version with sens. adjust, 3X variant*

> Barriera - Through beam



Modelli disponibili - Available models

> Fotocellule a connettore con ottica assiale - Plug exit photoelectric sensors axial optic

Funzione Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili / wires LO NPN	3 fili / wires LO PNP	3 fili / wires DO NPN	3 fili / wires DO PNP	4 fili / wires NPN LO/DO	4 fili / wires PNP LO/DO
Soppr. di sfondo Background suppression	50 mm	Plastico Plastic	No	SS0/LN-0E	SS0/LP-0E	SS0/DN-0E	SS0/DP-0E	SS0/ON-0E	SS0/OP-0E
		Metallico Metallic		SS0/LN-1E	SS0/LP-1E	SS0/DN-1E	SS0/DP-1E	SS0/ON-1E	SS0/OP-1E
	100 mm	Plastico Plastic	No	SS1/LN-0E	SS1/LP-0E	SS1/DN-0E	SS1/DP-0E	SS1/ON-0E	SS1/OP-0E
		Metallico Metallic		SS1/LN-1E	SS1/LP-1E	SS1/DN-1E	SS1/DP-1E	SS1/ON-1E	SS1/OP-1E
	Focalizzata Focalized	Plastico Plastic	No	SST/LN-0E	SST/LP-0E	SST/DN-0E	SST/DP-0E	SST/ON-0E	SST/OP-0E
		Metallico Metallic		SST/LN-1E	SST/LP-1E	SST/DN-1E	SST/DP-1E	SST/ON-1E	SST/OP-1E
Tasteggio diretto Diffuse reflection	100 mm	Plastico Plastic	No	SS2/LN-0E	SS2/LP-0E	SS2/DN-0E	SS2/DP-0E	SS2/ON-0E	SS2/OP-0E
		Plastico Plastic	Si / Yes	SS3/LN-0E	SS3/LP-0E	SS3/DN-0E	SS3/DP-0E	SS3/ON-0E	SS3/OP-0E
		Metallico Metallic	No	SS2/LN-1E	SS2/LP-1E	SS2/DN-1E	SS2/DP-1E	SS2/ON-1E	SS2/OP-1E
		Metallico Metallic	Si / Yes	SS3/LN-1E	SS3/LP-1E	SS3/DN-1E	SS3/DP-1E	SS3/ON-1E	SS3/OP-1E
	400 mm	Plastico Plastic	Si / Yes	SS7/LN-0E	SS7/LP-0E	SS7/DN-0E	SS7/DP-0E	SS7/ON-0E	SS7/OP-0E
		Metallico Metallic	Si / Yes	SS7/LN-1E	SS7/LP-1E	SS7/DN-1E	SS7/DP-1E	SS7/ON-1E	SS7/OP-1E
Catarifrangente Retro-reflective	800 mm	Plastico Plastic	Si / Yes	SS8/LN-0E	SS8/LP-0E	SS8/DN-0E	SS8/DP-0E	SS8/ON-0E	SS8/OP-0E
		Metallico Metallic	Si / Yes	SS8/LN-1E	SS8/LP-1E	SS8/DN-1E	SS8/DP-1E	SS8/ON-1E	SS8/OP-1E
	4 m	Plastico Plastic	No	SSC/LN-0E	SSC/LP-0E	SSC/DN-0E	SSC/DP-0E	SSC/ON-0E	SSC/OP-0E
		Plastico Plastic	Si / Yes					SSC/ON-0E3X	SSC/OP-0E3X
	3 m	Metallico Metallic	No	SSC/LN-1E	SSC/LP-1E	SSC/DN-1E	SSC/DP-1E	SSC/ON-1E	SSC/OP-1E
		Metallico Metallic	Si / Yes					SSC/ON-1E3X	SSC/OP-1E3X
Polarizzata Polarized	3 m	Plastico Plastic	No	SSP/LN-0E	SSP/LP-0E	SSP/DN-0E	SSP/DP-0E	SSP/ON-0E	SSP/OP-0E
		Plastico Plastic	Si / Yes					SSP/ON-0E3X	SSP/OP-0E3X
		Metallico Metallic	No	SSP/LN-1E	SSP/LP-1E	SSP/DN-1E	SSP/DP-1E	SSP/ON-1E	SSP/OP-1E
		Metallico Metallic	Si / Yes					SSP/ON-1E3X	SSP/OP-1E3X
	14 m	Plastico Plastic	Emettitore / Emitter	SSH/00-0E					
		Plastico Plastic	Em con / With check	SSH/X0-0E					
Barriera Through-beam	8 m	Plastico Plastic	Ricev. / Receiv.	SSZ/LN-0E	SSZ/LP-0E	SSZ/DN-0E	SSZ/DP-0E	SSZ/ON-0E	SSZ/OP-0E
			Ricev.reg / Receiv.reg	SSD/LN-0E	SSD/LP-0E	SSD/DN-0E	SSD/DP-0E	SSD/ON-0E	SSD/OP-0E
			Emettitore / Emitter	SSH/00-1E					
		Metallico Metallic	Em con / With check	SSH/X0-1E					
			Ricev. / Receiv.	SSZ/LN-1E	SSZ/LP-1E	SSZ/DN-1E	SSZ/DP-1E	SSZ/ON-1E	SSZ/OP-1E
			Ricev.reg / Receiv.reg	SSD/LN-1E	SSD/LP-1E	SSD/DN-1E	SSD/DP-1E	SSD/ON-1E	SSD/OP-1E
	3 m	Plastico Plastic	Emettitore / Emitter	SSU/00-0E					
			Em con / With check	SSU/X0-0E					
			Ricev. / Receiv.	SSG/AN-0E	SSG/AP-0E	SSG/CN-0E	SSG/CP-0E		
		Metallico Metallic	Emettitore / Emitter	SSU/00-1H					
			Em con / With check	SSU/X0-1H					
			Ricev. / Receiv.	SSG/AN-1H	SSG/AP-1H	SSG/CN-1H	SSG/CP-1H		
	3 m	Plastico Plastic	Emettitore / Emitter	SSU/00-0E					
			Em con / With check	SSU/X0-0E					
			Ricev. / Receiv.	SSV/AN-0E	SSV/AP-0E	SSV/CN-0E	SSV/CP-0E		
		Metallico Metallic	Emettitore / Emitter	SSU/00-1H					
			Em con / With check	SSU/X0-1H					
			Ricev. / Receiv.	SSV/AN-1H	SSV/AP-1H	SSV/CN-1H	SSV/CP-1H		

> Fotocellule a cavo con ottica assiale - Cable exit photoelectric sensors axial optic

Funzione Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili / wires LO NPN	3 fili / wires LO PNP	3 fili / wires DO NPN	3 fili / wires DO PNP	4 fili / wires NPN LO/DO	4 fili / wires PNP LO/DO
Soppr. di sfondo Background suppression	50 mm	Plastico Plastic	No	SS0/LN-0A	SS0/LP-0A	SS0/DN-0A	SS0/DP-0A	SS0/ON-0A	SS0/OP-0A
		Metallico Metallic		SS0/LN-1A	SS0/LP-1A	SS0/DN-1A	SS0/DP-1A	SS0/ON-1A	SS0/OP-1A
	100 mm	Plastico Plastic	No	SS1/LN-0A	SS1/LP-0A	SS1/DN-0A	SS1/DP-0A	SS1/ON-0A	SS1/OP-0A
		Metallico Metallic		SS1/LN-1A	SS1/LP-1A	SS1/DN-1A	SS1/DP-1A	SS1/ON-1A	SS1/OP-1A
	Focalizzata Focalized	Plastico Plastic	No	SST/LN-0A	SST/LP-0A	SST/DN-0A	SST/DP-0A	SST/ON-0A	SST/OP-0A
		Metallico Metallic		SST/LN-1A	SST/LP-1A	SST/DN-1A	SST/DP-1A	SST/ON-1A	SST/OP-1A
Tasteggio diretto Diffuse reflection	100 mm	Plastico Plastic	No	SS2/LN-0A	SS2/LP-0A	SS2/DN-0A	SS2/DP-0A	SS2/ON-0A	SS2/OP-0A
		Plastico Plastic	Si / Yes	SS3/LN-0A	SS3/LP-0A	SS3/DN-0A	SS3/DP-0A	SS3/ON-0A	SS3/OP-0A
		Metallico Metallic	No	SS2/LN-1A	SS2/LP-1A	SS2/DN-1A	SS2/DP-1A	SS2/ON-1A	SS2/OP-1A
		Metallico Metallic	Si / Yes	SS3/LN-1A	SS3/LP-1A	SS3/DN-1A	SS3/DP-1A	SS3/ON-1A	SS3/OP-1A
	400 mm	Plastico Plastic	Si / Yes	SS7/LN-0A	SS7/LP-0A	SS7/DN-0A	SS7/DP-0A	SS7/ON-0A	SS7/OP-0A
		Metallico Metallic	Si / Yes	SS7/LN-1A	SS7/LP-1A	SS7/DN-1A	SS7/DP-1A	SS7/ON-1A	SS7/OP-1A
Catarifrangente Retro-reflective	800 mm	Plastico Plastic	Si / Yes	SS8/LN-0A	SS8/LP-0A	SS8/DN-0A	SS8/DP-0A	SS8/ON-0A	SS8/OP-0A
		Metallico Metallic	Si / Yes	SS8/LN-1A	SS8/LP-1A	SS8/DN-1A	SS8/DP-1A	SS8/ON-1A	SS8/OP-1A
	4 m	Plastico Plastic	No	SSC/LN-0A	SSC/LP-0A	SSC/DN-0A	SSC/DP-0A	SSC/ON-0A	SSC/OP-0A
		Plastico Plastic	Si / Yes					SSC/ON-0A3X	SSC/OP-0A3X
		Metallico Metallic	No	SSC/LN-1A	SSC/LP-1A	SSC/DN-1A	SSC/DP-1A	SSC/ON-1A	SSC/OP-1A
		Metallico Metallic	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
		Plastico Plastic	Si / Yes					SSP/ON-0A3X	SSP/OP-0A3X
		Metallico Metallic	No	SSP/LN-1A	SSP/LP-1A	SSP/DN-1A	SSP/DP-1A	SSP/ON-1A	SSP/OP-1A
		Metallico Metallic	Si / Yes					SSP/ON-1A3X	SSP/OP-1A3X
Barriera Through-beam	14 m	Plastico Plastic	Emettitore / Emitter	SSH/00-0A					
			Em. con / With check	SSH/X0-0A					
			Ricev. / Receiv.	SSZ/LN-0A	SSZ/LP-0A	SSZ/DN-0A	SSZ/DP-0A	SSZ/ON-0A	SSZ/OP-0A
			Ricev.reg / Receiv.reg	SSD/LN-0A	SSD/LP-0A	SSD/DN-0A	SSD/DP-0A	SSD/ON-0A	SSD/OP-0A
		Metallico Metallic	Emettitore / Emitter	SSH/00-1A					
			Em. con / With check	SSH/X0-1A					
			Ricev. / Receiv.	SSZ/LN-1A	SSZ/LP-1A	SSZ/DN-1A	SSZ/DP-1A	SSZ/ON-1A	SSZ/OP-1A
			Ricev.reg / Receiv.reg	SSD/LN-1A	SSD/LP-1A	SSD/DN-1A	SSD/DP-1A	SSD/ON-1A	SSD/OP-1A
	8 m	Plastico Plastic	Emettitore / Emitter	SSU/00-0A					
			Em. con / With check	SSU/X0-0A					
			Ricev. / Receiv.	SSG/AN-0A	SSG/AP-0A	SSG/CN-0A	SSG/CP-0A		
			Ricev.reg / Receiv.reg	SSD/LN-0A	SSD/LP-0A	SSD/DN-0A	SSD/DP-0A	SSD/ON-0A	SSD/OP-0A
		Metallico Metallic	Emettitore / Emitter	SSU/00-1A					
			Em. con / With check	SSU/X0-1A					
			Ricev. / Receiv.	SSG/AN-1A	SSG/AP-1A	SSG/CN-1A	SSG/CP-1A		
			Ricev.reg / Receiv.reg	SSD/LN-1A	SSD/LP-1A	SSD/DN-1A	SSD/DP-1A	SSD/ON-1A	SSD/OP-1A
	3 m	Plastico Plastic	Emettitore / Emitter	SSU/00-0A					
			Em. con / With check	SSU/X0-0A					
			Ricev. / Receiv.	SSV/AN-0A	SSV/AP-0A	SSV/CN-0A	SSV/CP-0A		
			Ricev.reg / Receiv.reg	SSD/LN-0A	SSD/LP-0A	SSD/DN-0A	SSD/DP-0A	SSD/ON-0A	SSD/OP-0A
		Metallico Metallic	Emettitore / Emitter	SSU/00-1A					
			Em. con / With check	SSU/X0-1A					
			Ricev. / Receiv.	SSV/AN-1A	SSV/AP-1A	SSV/CN-1A	SSV/CP-1A		
			Ricev.reg / Receiv.reg	SSD/LN-1A	SSD/LP-1A	SSD/DN-1A	SSD/DP-1A	SSD/ON-1A	SSD/OP-1A

> Fotocellule a connettore con ottica radiale - Plug exit photoelectric sensors radial optic

Funzione Model	Portata Distance	Corpo Housing	Regol. Adj.	3 fili / wires LO NPN	3 fili / wires LO PNP	3 fili / wires DO NPN	3 fili / wires DO PNP	4 fili / wires NPN LO/DO	4 fili / wires PNP LO/DO		
Tasteggio diretto Diffuse reflection	100 mm	Plastico Plastic	No	SP2/LN-0E	SP2/LP-0E	SP2/DN-0E	SP2/DP-0E	SP2/ON-0E	SP2/OP-0E		
			Si / Yes	SP3/LN-0E	SP3/LP-0E	SP3/DN-0E	SP3/DP-0E	SP3/ON-0E	SP3/OP-0E		
		Metallico Metallic	No	SP2/LN-1E	SP2/LP-1E	SP2/DN-1E	SP2/DP-1E	SP2/ON-1E	SP2/OP-1E		
			Si / Yes	SP3/LN-1E	SP3/LP-1E	SP3/DN-1E	SP3/DP-1E	SP3/ON-1E	SP3/OP-1E		
	400 mm	Plastico Plastic	Si / Yes	SP7/LN-0E	SP7/LP-0E	SP7/DN-0E	SP7/DP-0E	SP7/ON-0E	SP7/OP-0E		
			Metallico Metallic	Si / Yes	SP7/LN-1E	SP7/LP-1E	SP7/DN-1E	SP7/DP-1E	SP7/ON-1E	SP7/OP-1E	
	800 mm	Plastico Plastic	Si / Yes	SP8/LN-0E	SP8/LP-0E	SP8/DN-0E	SP8/DP-0E	SP8/ON-0E	SP8/OP-0E		
			Metallico Metallic	Si / Yes	SP8/LN-1E	SP8/LP-1E	SP8/DN-1E	SP8/DP-1E	SP8/ON-1E	SP8/OP-1E	
Catarifrangente Retro-reflective	4 m	Plastico Plastic	No	SPC/LN-0E	SPC/LP-0E	SPC/DN-0E	SPC/DP-0E	SPC/ON-0E	SPC/OP-0E		
			Si / Yes					SPC/ON-0E3X	SSC/OP-0E3X		
		Metallico Metallic	No	SPC/LN-1E	SPC/LP-1E	SPC/DN-1E	SPC/DP-1E	SPC/ON-1E	SPC/OP-1E		
			Si / Yes					SPC/ON-1E3X	SSC/OP-1E3X		
Polarizzata Polarized	3 m	Plastico Plastic	No	SPP/LN-0E	SPP/LP-0E	SPP/DN-0E	SPP/DP-0E	SPP/ON-0E	SPP/OP-0E		
			Si / Yes					SPP/ON-0E3X	SPP/OP-0E3X		
		Metallico Metallic	No	SPP/LN-1E	SPP/LP-1E	SPP/DN-1E	SPP/DP-1E	SPP/ON-1E	SPP/OP-1E		
			Si / Yes				SPP/ON-1E3X	SPP/OP-1E3X			
Barriera Through-beam	14 m	Plastico Plastic	Emettitore / Emitter	SPH/00-0E							
			Em. con / With check	SPH/X0-0E							
			Ricev. / Receiv.	SPZ/LN-0E	SPZ/LP-0E	SPZ/DN-0E	SPZ/DP-0E	SPZ/ON-0E	SPZ/OP-0E		
			Ricev.reg / Receiv.reg	SPD/LN-0E	SPD/LP-0E	SPD/DN-0E	SPD/DP-0E	SPD/ON-0E	SPD/OP-0E		
		Metallico Metallic	Emettitore / Emitter	SPH/00-1E							
			Em. con / With check	SPH/X0-1E							
			Ricev. / Receiv.	SPZ/LN-1E	SPZ/LP-1E	SPZ/DN-1E	SPZ/DP-1E	SPZ/ON-1E	SPZ/OP-1E		
			Ricev.reg / Receiv.reg	SPD/LN-1E	SPD/LP-1E	SPD/DN-1E	SPD/DP-1E	SPD/ON-1E	SPD/OP-1E		
	8 m	Plastico Plastic	Emettitore / Emitter	SPU/00-0E							
			Em. con / With check	SPU/X0-0E							
			Ricev. / Receiv.	SPG/AN-0E	SPG/AP-0E	SPG/CN-0E	SPG/CP-0E				
			Emettitore / Emitter	SPU/00-1E							
		Metallico Metallic	Em. con / With check	SPU/X0-1E							
			Ricev. / Receiv.	SPG/AN-1E	SPG/AP-1E	SPG/CN-1E	SPG/CP-1E				
			3 m	Plastico Plastic	Emettitore / Emitter	SPU/00-0E					
					Em. con / With check	SPU/X0-0E					
	Ricev. / Receiv.	SPV/AN-0E			SPV/AP-0E	SPV/CN-0E	SPV/CP-0E				
	Emettitore / Emitter	SPU/00-1E									
	Metallico Metallic	Em. con / With check		SPU/X0-1E							
		Ricev. / Receiv.		SPV/AN-1E	SPV/AP-1E	SPV/CN-1E	SPV/CP-1E				

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Tasteggio diretto Diffuse reflection	100 mm	Plastico	No	SP2/LN-0A	SP2/LP-0A	SP2/DN-0A	SP2/DP-0A	SP2/ON-0A	SP2/OP-0A
		Plastico	Si / Yes	SP3/LN-0A	SP3/LP-0A	SP3/DN-0A	SP3/DP-0A	SP3/ON-0A	SP3/OP-0A
		Metallico	No	SP2/LN-1A	SP2/LP-1A	SP2/DN-1A	SP2/DP-1A	SP2/ON-1A	SP2/OP-1A
		Metallico	Si / Yes	SP3/LN-1A	SP3/LP-1A	SP3/DN-1A	SP3/DP-1A	SP3/ON-1A	SP3/OP-1A
	400 mm	Plastico	Si / Yes	SP7/LN-0A	SP7/LP-0A	SP7/DN-0A	SP7/DP-0A	SP7/ON-0A	SP7/OP-0A
		Metallico	Si / Yes	SP7/LN-1A	SP7/LP-1A	SP7/DN-1A	SP7/DP-1A	SP7/ON-1A	SP7/OP-1A
Catarifrangente Retro-reflective	800 mm	Plastico	Si / Yes	SP8/LN-0A	SP8/LP-0A	SP8/DN-0A	SP8/DP-0A	SP8/ON-0A	SP8/OP-0A
		Metallico	Si / Yes	SP8/LN-1A	SP8/LP-1A	SP8/DN-1A	SP8/DP-1A	SP8/ON-1A	SP8/OP-1A
	4 m	Plastico	No	SPC/LN-0A	SPC/LP-0A	SPC/DN-0A	SPC/DP-0A	SPC/ON-0A	SPC/OP-0A
		Plastico	Si / Yes					SPC/ON-0A3X	SPC/OP-0A3X
		Metallico	No	SPC/LN-1A	SPC/LP-1A	SPC/DN-1A	SPC/DP-1A	SPC/ON-1A	SPC/OP-1A
		Metallico	Si / Yes					SPC/ON-1A3X	SPC/OP-1A3X
Polarizzata Polarized	3 m	Plastico	No	SPP/LN-0A	SPP/LP-0A	SPP/DN-0A	SPP/DP-0A	SPP/ON-0A	SPP/OP-0A
		Plastico	Si / Yes					SPP/ON-0A3X	SPP/OP-0A3X
		Metallico	No	SPP/LN-1A	SPP/LP-1A	SPP/DN-1A	SPP/DP-1A	SPP/ON-1A	SPP/OP-1A
		Metallico	Si / Yes					SPP/ON-1A3X	SPP/OP-1A3X
Barriera Through-beam	14 m	Plastico	Emettitore / Emitter	SPH/00-0A					
			Em. con / With check	SPH/X0-0A					
			Ricev. / Receiv.	SPZ/LN-0A	SPZ/LP-0A	SPZ/DN-0A	SPZ/DP-0A	SPZ/ON-0A	SPZ/OP-0A
		Metallico	Ricev.reg / Receiv.reg	SPD/LN-0A	SPD/LP-0A	SPD/DN-0A	SPD/DP-0A	SPD/ON-0A	SPD/OP-0A
			Emettitore / Emitter	SPH/00-1A					
			Em. con / With check	SPH/X0-1A					
	8 m	Plastico	Ricev. / Receiv.	SPZ/LN-1A	SPZ/LP-1A	SPZ/DN-1A	SPZ/DP-1A	SPZ/ON-1A	SPZ/OP-1A
			Ricev.reg / Receiv.reg	SPD/LN-1A	SPD/LP-1A	SPD/DN-1A	SPD/DP-1A	SPD/ON-1A	SPD/OP-1A
			Emettitore / Emitter	SPU/00-0A					
		Metallico	Em. con / With check	SPU/X0-0A					
			Ricev. / Receiv.	SPG/AN-0A	SPG/AP-0A	SPG/CN-0A	SPG/CP-0A		
			Emettitore / Emitter	SPU/00-1A					
	3 m	Plastico	Em. con / With check	SPU/X0-1A					
			Ricev. / Receiv.	SPG/AN-1A	SPG/AP-1A	SPG/CN-1A	SPG/CP-1A		
		Metallico	Emettitore / Emitter	SPU/00-0A					
			Em. con / With check	SPU/X0-0A					
			Ricev. / Receiv.	SPV/AN-0A	SPV/AP-0A	SPV/CN-0A	SPV/CP-0A		
			Emettitore / Emitter	SPU/00-1A					
		Metallico	Em. con / With check	SPU/X0-1A					
			Ricev.	SPV/AN-1A	SPV/AP-1A	SPV/CN-1A	SPV/CP-1A		

Specifiche (In accordo con IEC EN 60947-5-2) - Specifications (According to IEC EN 60947-5-2)

> Modelli a soppressione di sfondo - Background suppression models

Funzione / Model	SS0/**_**	SS1/**_**	SST/**_**
Regolazione di sensibilità / Sensibility adjustment	No	No	No
Distanza di rilevazione nominale / Nominal sensing distance	50 mm	100 mm	12/25 mm
Emissione / Emission	Rosso / Red (660 nm)		
Diametro Spot Spot diameter	2 mm	4,5 mm	1 mm con / with STF-12 2 mm con / with STF-25
Minimo oggetto rilevabile Minimum detectable object	1 mm	3,5 mm	0,1 mm con / with STF-12 0,25 mm con / with STF-25
Corsa differenziale / Differential travel	≤ 10%		
Ripetibilità / Repeat accuracy	5%		
Tensione alimentazione / Operating voltage	10-30 Vdc		
Ondulazione residua / Ripple	≤ 10%		
Corrente assorbita / Supply current	30 mA		
Corrente di uscita / Load current	100 mA		
Corrente di perdita / Leakage current	10 µA		
Caduta di tensione in uscita / Output voltage drop	1,2 V max. I _L = 100mA		
Tipo uscita / Output type	NPN o / or PNP - LO/DO selezionabile / selectable		
Frequenza di commutazione / Switching frequency	1 kHz		
Ritardo alla disponibilità / Time delay before availability	200 ms		
Protezione elettriche alimentazione Supply electrical protections	Inversione di polarità, sovratensioni impulsive Polarity reversal, transient		
Protezione elettriche uscita / Protection electrical output	Cortocircuito (autoripristinante) / Short circuit (autoreset)		
Limiti di temperatura operativa / Operative temperature range	-25°C...+70°C (senza condensa / without freeze)		
Deriva termica / Thermal drift	10% Sr		
Interferenza alla luce esterna Interference external light	3000 lux (lampada ad incandescenza / incandescence lamp) 10000 lux (luce solare / sunlight)		
Grado di protezione / Protection degree	IP67 (EN60529) ⁽¹⁾		
Indicatori LED / LED indicators	Giallo / Yellow		
Materiale contenitore Housing material	PBT (plastico / plastic) / Ottone nichelato / Nicked plated brass (metallico / metallic) PC (passacavo / cable exit)		
Materiale ottica / Optic material	Plastico / Plastic		
Coppia serraggio / Tightening torque	40 Nm (corpo metallico / metallic housing)		
Peso (appros.) / Weight (approx)	100 g (plastico / plastic), 120 g (metallico / metallic)		

⁽¹⁾ Protezione garantita solo con il cavo a connettore correttamente montato / Protection guaranteed only with plug cable well mounted

> Modelli a riflessione diretta e catarifrangente - Diffuse reflection and retro-reflective models

	Riflessione Diretta / <i>Diffuse reflection</i>					Catarifrangente <i>Retro-reflective</i>	Polarizzata <i>Polarized</i>
Funzione / <i>Model</i>	S*2/**_**	S*3/**_**	S*6/**_**	S*7/**_**	S*9/**_**	S*C/**_****	S*8/**_****
Regolazione della sensibilità <i>Sensibility adjustment</i>	No	Si / Yes	No	Si / Yes	No	No	Si / Yes
Distanza di rilevazione nominale <i>Nominal sensing distance</i>	100 mm con target bianco <i>with white target</i> 100x100 mm		400 mm con target bianco <i>with white target</i> 200x200 mm		800 mm con target bianco / <i>with white target</i> 400x400 mm	4 m con riflettore <i>with reflector</i> RL 110	3 m con riflettore <i>with reflector</i> RL 110
Emissione <i>Emission</i>	Infrarosso <i>Infrared (880 nm)</i>						Rosso <i>Red (660 nm)</i>
Corsa differenziale <i>Differential travel</i>	≤ 10%						
Ripetibilità / <i>Repeat accuracy</i>	5%						
Tensione di alimentazione <i>Operating voltage</i>	10-30 Vdc						
Ondulazione residua <i>Ripple</i>	≤ 10%						
Corrente assorbita <i>Supply current</i>	30 mA						
Corrente di uscita <i>Load current</i>	100 mA						
Corrente di perdita <i>Leakage current</i>	10 µA						
Caduta di tensione in uscita <i>Output voltage drop</i>	1,2 V max. IL = 100mA						
Tipo uscita / <i>Output type</i>	NPN o / <i>or</i> PNP - LO/DO selezionabile / <i>selectable</i>						
Frequenza di commutazione <i>Switching frequency</i>	250 Hz						
Ritardo alla disponibilità <i>Time delay before availability</i>	200 ms						
Protezioni elettriche alimentazione <i>Supply electrical protections</i>	Inversione di polarità, sovratensioni impulsive <i>Polarity reversal, transient</i>						
Protezioni elettriche uscita <i>Protection electrical output</i>	Cortocircuito (autopristinante) <i>Short circuit (autoreset)</i>						
Limiti di temperatura <i>Operative temperature range</i>	-25°C...+70°C (senza condensa / <i>without freeze</i>)						
Deriva termica / <i>Thermal drift</i>	10% Sr						
Inteferenza alla luce esterna <i>Interference external light</i>	3000 lux (lampada ad incandescenza / <i>incandescence lamp</i>) 10000 lux (luce solare / <i>sunlight</i>)						
Grado di protezione / <i>Protection degree</i>	IP67 (EN60529) ⁽¹⁾						
Indicatori LED / <i>LED indicators</i>	Giallo / <i>Yellow</i>						
Materiale contenitore <i>Housing material</i>	PBT (plastico / <i>plastic</i>) / Ottone nichelato / <i>Nicked plated brass</i> (metallico / <i>metallic</i>) PC (passacavo / <i>cabl exit</i>)						
Materiale ottica / <i>Optic material</i>	Plastico / <i>Plastic</i>						
Coppia serraggio / <i>Tightening torque</i>	40 Nm (corpo metallico / <i>metal housing</i>)						
Peso (appross.) / <i>Weight (approx)</i>	100 g (plastico / <i>plastic</i>), 120 g (metallico / <i>metallic</i>)						

⁽¹⁾ Protezione garantita solo con il cavo a connettore correttamente montato / Protection guaranteed only with plug cable well mounted

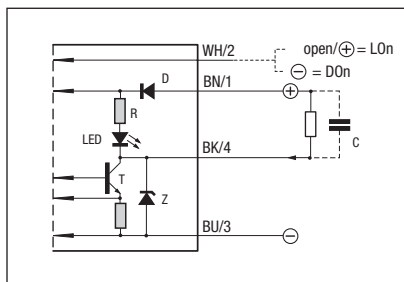
> Modelli a barriera - Through beam models

Funzione / Model	Barriera standard Standard beam			Barriera per piccoli e piccolissimi oggetti Barrier for small and ultra-small objects		
	Emettitore Emitter	Ricevitore Receiver	Ricevitore Receiver	Emettitore Emitter	Ricevitore Receiver	Ricevitore Receiver
	S*H/*0-**	S*Z/**-**	S*D/**-**	S*U/*0-**	S*G/**-**	S*V/**-**
Regolazione della sensibilità / Sensibility adjustment		Si / Yes	No		No	No
Distanza di rilevazione nominale Nominal sensing distance	14 m				8 m	3 m
Oggetto minimo rilevabile Minimum detectable object					ø4 mm	ø1 mm
Emissione / Emission	Rosso / Red (660 nm)					
Tolleranza / Tolerance				90%-200% @ Eg = 1,5		
Corsa differenziale / Differential travel				≤ 10%		
Ripetibilità / Repeat accuracy				5%		
Tensione di alimentazione / Operating voltage				10-30 Vdc		
Ondulazione residua / Ripple				≤ 10%		
Corrente assorbita / Supply current	40 mA	30 mA		25 mA	20 mA	
Corrente di uscita / Load current	100 mA			100 mA		
Corrente di perdita / Leakage current				10 µA		
Caduta di tensione in uscita / Output voltage drop				1,2 V max. IL = 100mA		
Tipo uscita / Output type	NPN o / or PNP - LO/DO selezionabile /selectable			NPN o / or PNP - NO o / or NC		
Frequenza di commutazione Switching frequency	250 Hz			250 Hz		
Ritardo alla disponibilità Time delay before availability	200 ms			200 ms		
Protezioni elettriche alimentazione Supply electrical protections				Inversione di polarità, sovratensioni impulsive Polarity reversal, transient		
Protezioni elettriche uscita Protection electrical output				Cortocircuito (autopristinante) Short circuit (autoreset)		
Limiti di temperatura / Operative temperature range				-25°C ..+70°C (senza condensa)		
Deriva termica / Thermal drift	10% Sr			≤ 10% Sr		
Interferenza alla luce esterna Interference external light	3000 lux (lampada ad incandescenza / incandescence lamp)			10000 lux (luce solare / sunligh)		
Grado di protezione / Protection degree				IP67 (EN 60529) ⁽¹⁾		
Indicatori LED / LED indicators	Giallo / Yellow			Rosso (uscita attivata) / Red (activated output)		
Materiale contenitore Housing material				PBT (plastico / plastic) / Ottone nichelato / Nicked plated brass (metallico / metallic) PC (passacavo / cable exit)		
Materiale ottica / Optic material				Plastico / Plastic		
Coppia serraggio / Tightening torque				40 Nm (corpo metallico / metal housing)		
Peso (appross.) / Weight (approx)				200 g (plastico / plastic), 240 g (metallico / metallic)		

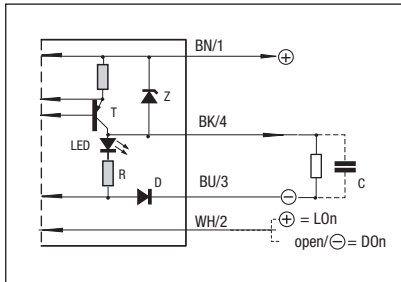
⁽¹⁾ Protezione garantita solo con il cavo a connettore correttamente montato / Protection guaranteed only with plug cable well mounted

Schemi elettrici delle connessioni - Electrical diagrams of the connections

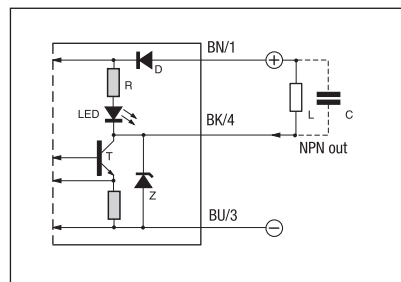
S**/0N-**-**



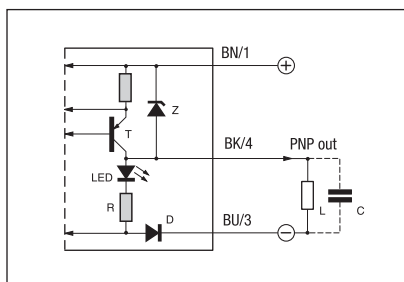
S**/0P-**-**



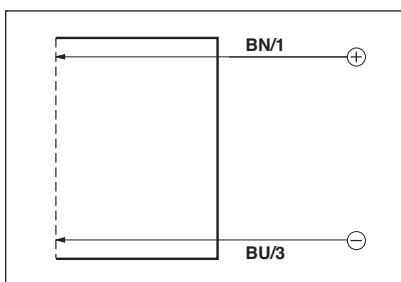
S**/*N-**-** (3 fili NPN / 3 wires NPN)



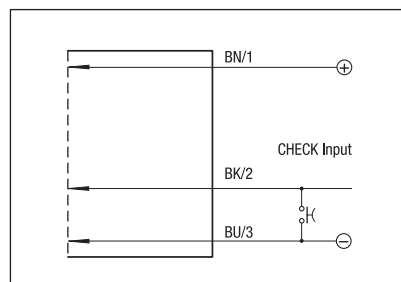
S**/*P-**-** (3 fili PNP / 3 wires PNP)



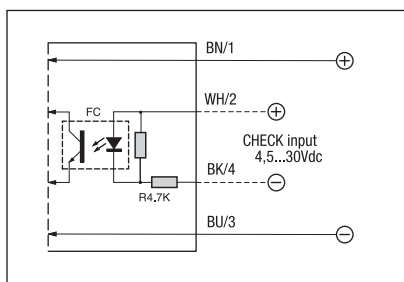
S**/00-**-**



S*H/X0-**-**



S*U/X0-**-**

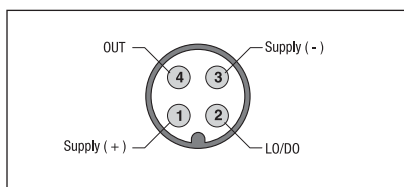


Legenda Key

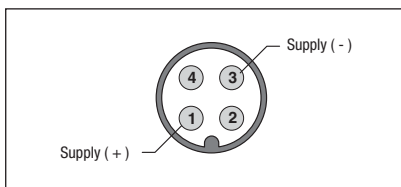
BN → marrone/brown
BK → nero/black
PK → rosa/pink
BU → blu/blue
WH → bianco/white
GY → grigio/gray

Connettore - Plug

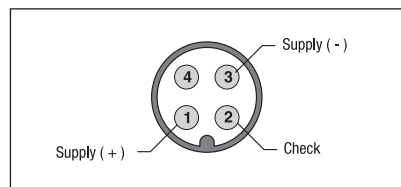
M12 Tasteggio diretto / Diffuse reflection
Polarizzata / Polarized
Ricevitore / Receiver
Soppr. di sfondo / Background suppr.



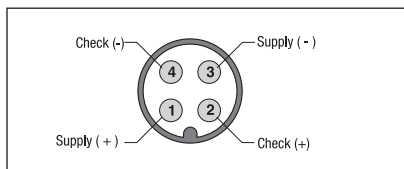
M12 Emittitore senza check
Emitter without check



M12 Emittitore con check S*H/X0-*E
Emitter with check S*H/X0-*E

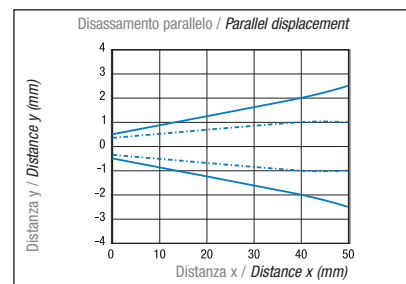
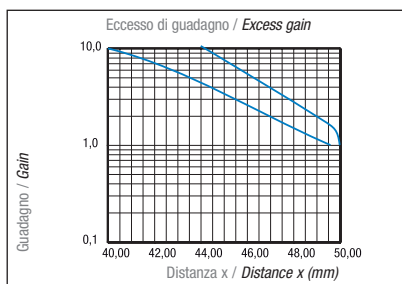
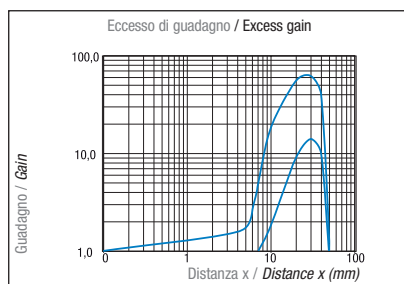


M12 M12 Emittitore con check S*U/X0-**-**
Emitter with check S*U/X0-**-**

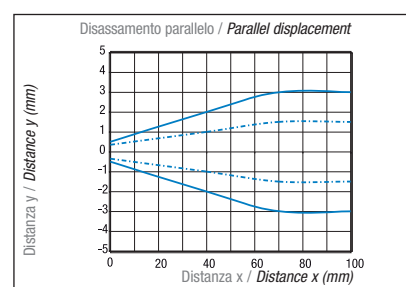
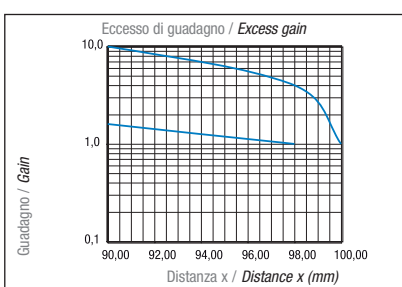
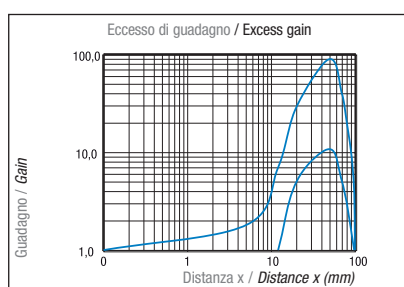


Curva di risposta - Response diagram

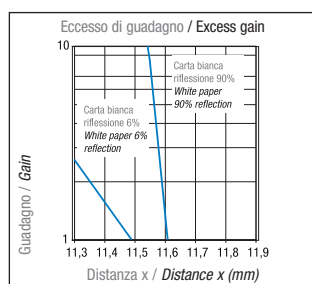
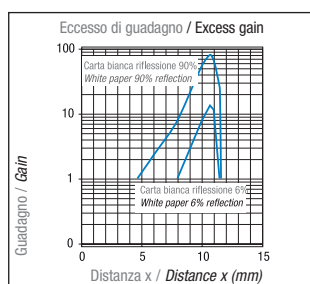
SS0/**_**



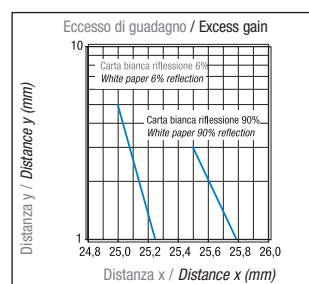
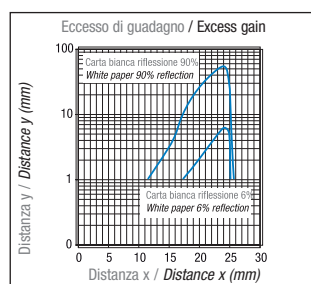
SS1/**_**



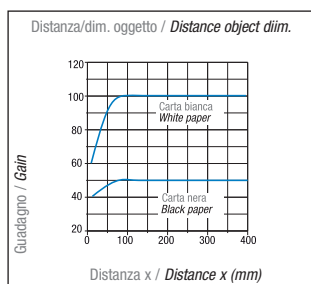
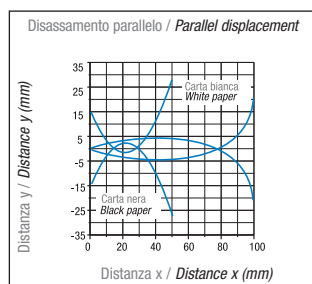
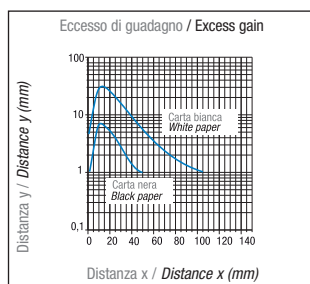
SST/**_** + STF-12



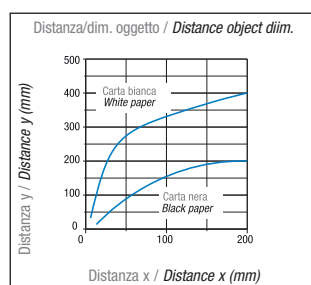
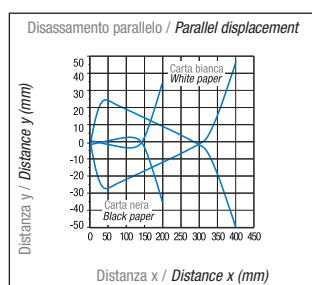
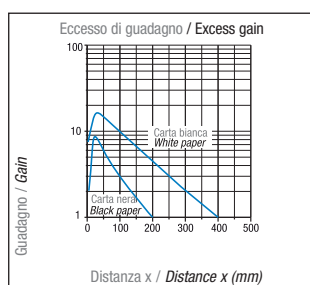
SST/**_** + STF-25



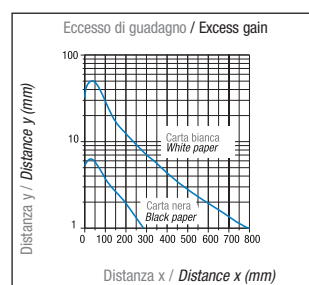
S*2/**_** S*3/**_**



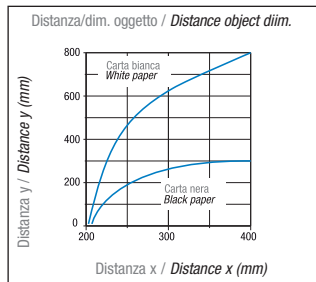
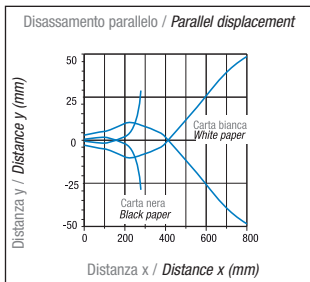
S*7/**_**



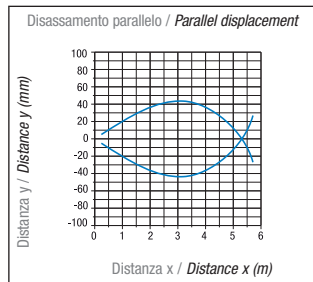
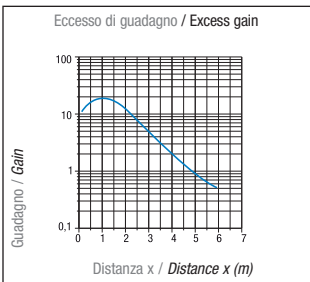
S*8/**_**



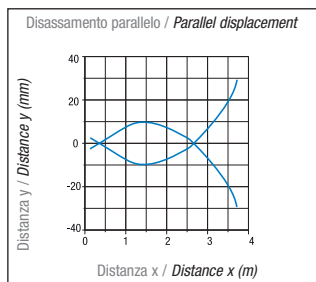
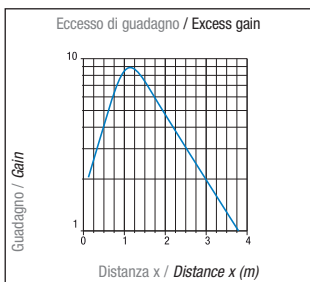
S*8/**-**



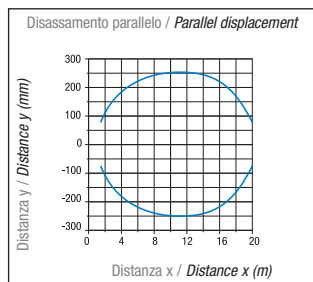
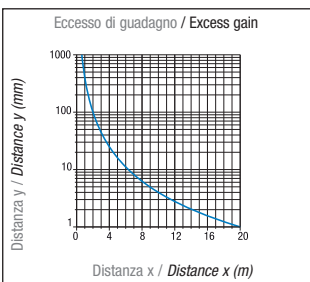
S*C/**-****



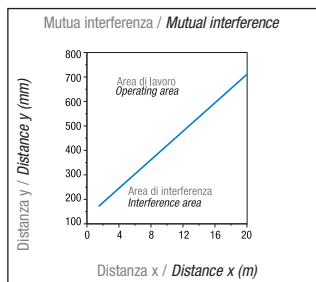
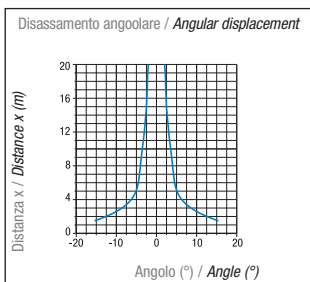
S*P/**-****



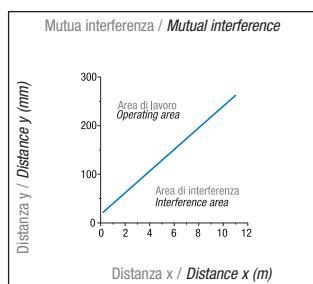
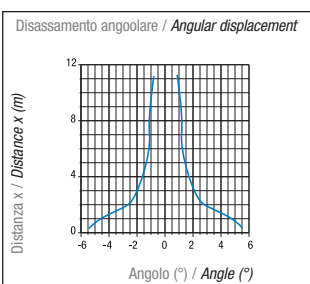
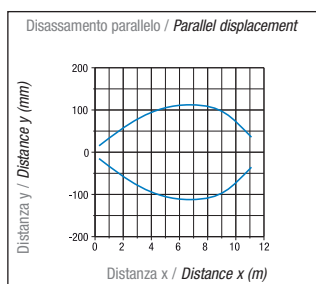
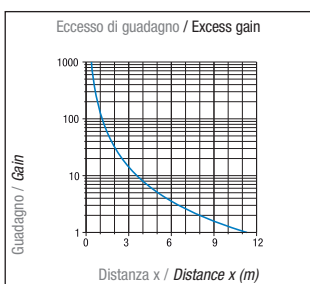
S*H/**-** + S*D/**-** S*H/**-** + S*Z/**-**



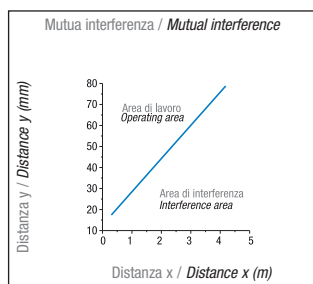
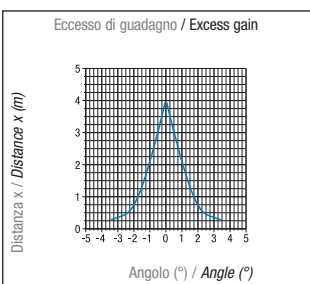
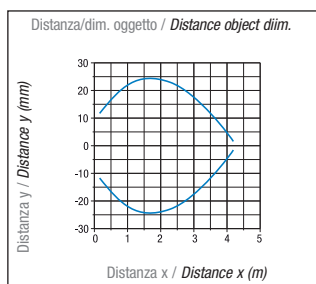
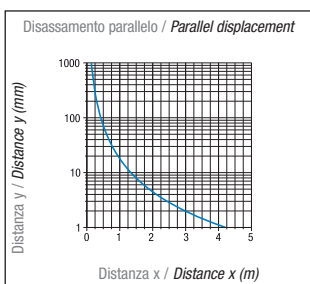
S*H/**-** + S*D/**-** S*H/**-** + S*Z/**-**



S*U/**-** + S*G/**-**

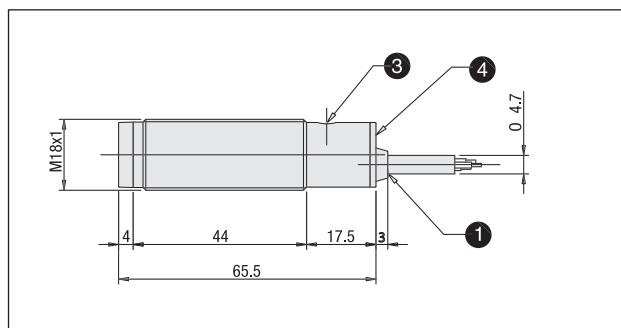


S*U/**-** + S*V/**-**

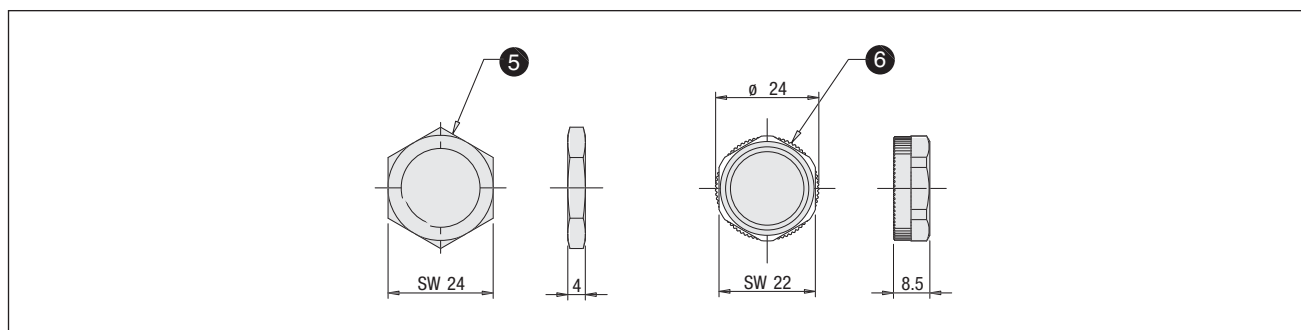
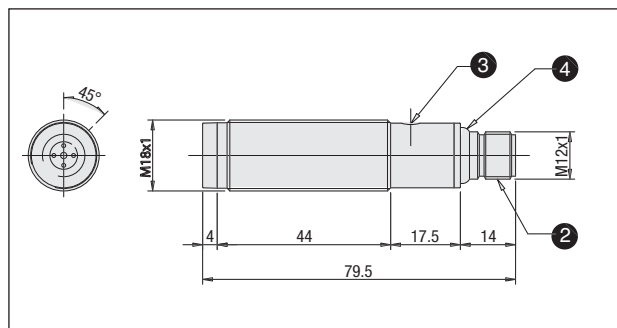


Dimensioni - Dimensions

Uscita a cavo / Cable exit



Uscita a connettore M12 / M12 plug cable exit

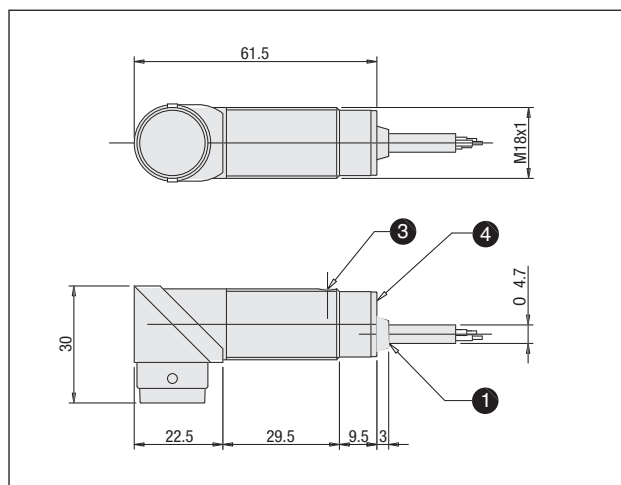


Legenda / Key

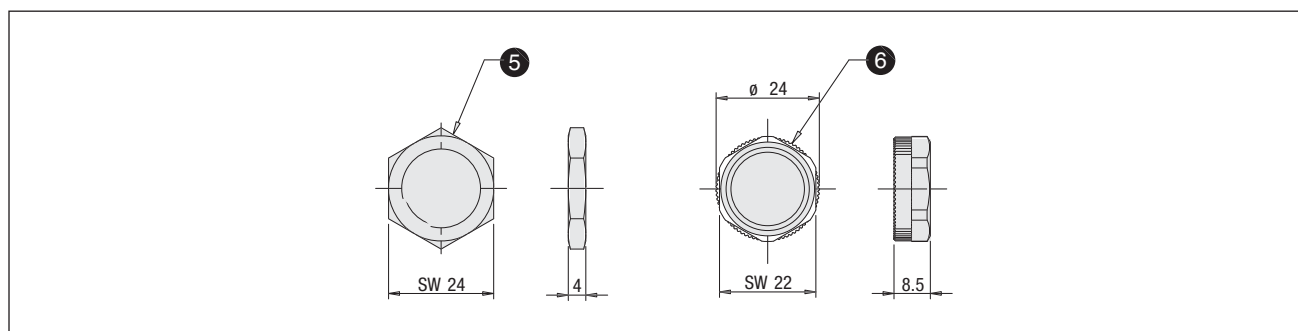
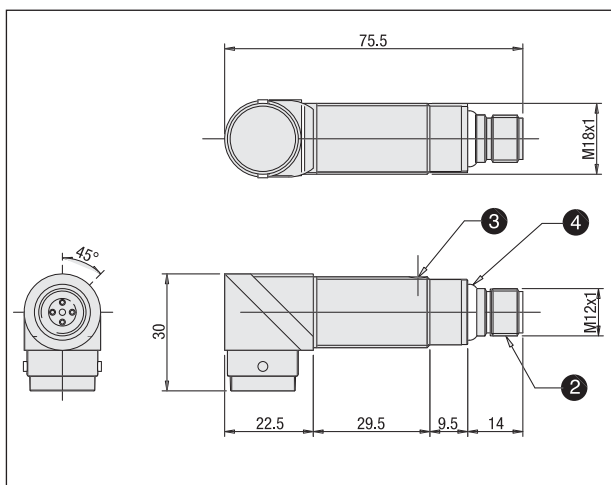
- | | |
|---|--|
| ① Uscita a cavo assiale
<i>Axial cable exit</i> | ⑤ Ghiera metallica
<i>Metal tightening nut</i> |
| ② Uscita connettore M12
<i>M12 plug cable exit</i> | ⑥ Ghiera plastica
<i>Plastic tightening nut</i> |
| ③ Trimmer
<i>Trimmer</i> | |
| ④ Led
<i>Led</i> | |

Connettori serie CD - Accessori serie ST / Plugs CD series - Accessories ST series

Uscita a cavo / Cable exit



Uscita a connettore M12 / M12 plug cable exit



Legenda / Key

- | | |
|---|--|
| ① Uscita a cavo assiale
<i>Axial cable exit</i> | ⑤ Ghiera metallica
<i>Metal tightening nut</i> |
| ② Uscita connettore M12
<i>M12 plug cable exit</i> | ⑥ Ghiera plastica
<i>Plastic tightening nut</i> |
| ③ Trimmer
<i>Trimmer</i> | |
| ④ LED
<i>LED</i> | |

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