



## S50/S51

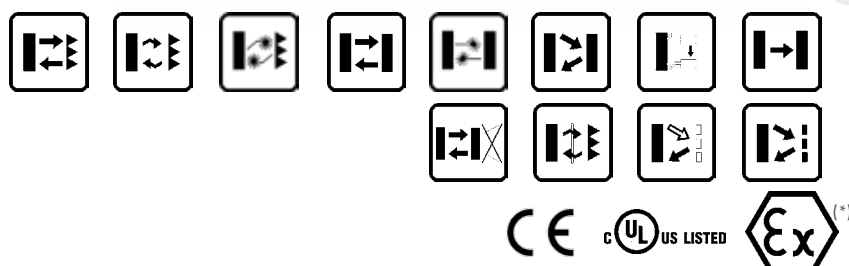
*Gamma estesa di sensori tubolari standard M18 One for All*

- Tutte le funzioni ottiche e modelli LASER
- M18 piatti in plastica con fissaggio universale
- Disponibili con contenitore M18 in metallo
- Ottica assiale o radiale, cavo o connettore
- Uscita a 4 fili NA-NC NPN o PNP standard



### APPLICAZIONI

- Macchine di lavorazione e confezionamento
- Linee di trasporto, movimentazione materiali
- Intralogistica per l'industria ceramica
- Magazzini automatici



(\*) Modelli assiali.  
ATEX II 3DG

S50/S51		
Proiettore/ricevitore		0...20 m
Sbarramento a retroriflessione (su riflettore R2)		0...60 m (LASER classe 1) (S50)
Sbarramento polarizzato		0.1...4 m
Sbarramento a retroriflessione per trasparenti (su riflettore R2)		0,1...4 m (S50) 0,1...3 m (S51)
Tasteggio diffuso		0,1...16 m (LASER classe 1) (S50)
Focalizzato		0,1...1,3 m (S50)
Soppressione di sfondo		a corta distanza 0...100 mm
Proiettore/ricevitore a fibra ottica		a media distanza 0...400 mm (S50) 0...450 mm (S51)
Tasteggio diffuso a fibra ottica		a lunga distanza 0...700 mm
Sensore di contrasto		a lunga distanza LASER 0...350 mm
Sensore di luminescenza		100 mm (S50)
Alimentazione	Vcc	50...100 mm (S50)
	Vca	0...100 mm (S50)
	Vca/cc	0...30 mm (S50)
	PNP	10 ±2 mm
Tipo di uscita	NPN	0...20 mm
	NPN/PNP	10...30 V
	relè	
	altro	
Collegamento	cavo	
	connettore	
	pig-tail	
Dimensioni indicative (mm)		M18x 55/68
Materiale contenitore		PBT, ottone nichelato
Protezione meccanica		IP67

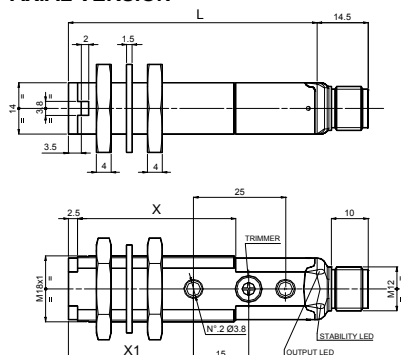
DATI TECNICI	
Alimentazione	10 ... 30 Vcc (valori limite)
Tensione di ripple	2 Vpp max.
Assorbimento (esclusa corrente di uscita)	35 mA max. (mod. S50...A00/B01/C01/C10/C21/D00/E01/T01) 30 mA max. (mod. S50...F01/M03, S51...A00/B01/C01/C10/C20/F00) 25 mA max. (mod. S50...W03/U03)
Emissione luminosa	LED rosso 630 nm (mod. S50...D00/E01, S50-PA/MA...M03) LED rosso 660 nm (mod. S50...B01/T01, S51...B01) LED rosso 670 nm (mod. S50-PS/MS...M03) LED IR 880 nm (mod. S50/S51...A00/C01/C10/C20/C21/G00) LED bianco 400-700 nm (mod. S50...W03) LED UV 370 nm (mod. S50...U03) Laser rosso 650 nm (mod. S50...G00/F01/B01/C01)
Impostazione	trimmer di sensibilità (mod. B01/C01/C21/E01/F01/T01) tasto di teach-in (mod. M03/W03/U03)
Modo operativo	modo LUCE su uscita NA / modo BUIO su uscita NC (mod. S50...C01/C10/C21/D00/M03/U03) modo BUIO su uscita NA / modo LUCE su uscita NC (mod. S50...A00/B01/E01/F01/T01/W03) filo bianco o pin 2 collegati a +10...30V modo LUCE / a 0V modo BUIO (mod. S51) filo bianco o pin 2 non collegato modo LUCE (mod. S51...C01/C10/C20)/ modo BUIO (mod. S51...A00/B01/F00)
Indicatori	LED giallo OUTPUT (S50, S51, escluso mod. G00) LED verde STABILITY (mod. S50...B01/C01/C21/E01/F01), LED POWER (mod. S50...G00, S51) LED verde/rosso READY/ERROR (mod. S50...M03/W03/U03)
Tipo di uscita	PNP o NPN; NA; NC (mod. S50)
Corrente di uscita	100 mA max.
Tensione di saturazione	2 V max.
Tempo di risposta	0,5 ms (mod. S50...A00/B01/T01/C10/C21/C01/D00/E01/U03) 2 ms (mod. S50...F01/G00) 1 ms (mod. S50...M03, S51...A00/B01/C01/C10/G00) 4 ms (mod. S51...F00) 100 µs (mod. S50...W03) 333 µs (mod. Laser S50)
Frequenza di commutazione	1 kHz (mod. S50...A00/B01/T01/C10/C21/C01/D00/E01/U03) 250 Hz (mod. S50...F01/G00) 500 Hz (mod. S50...M03, S51...A00/B01/C01/C10/G00) 120 Hz (mod. S51...F00) 5 kHz (mod. S50...W03) 1,5 kHz (mod. Laser S50)
Collegamento	cavo 2 m Ø 4 mm, connettore M12 4 poli
Rigidità dielettrica	500 Vca, 1 min. tra parti elettroniche e contenitore
Resistenza d'isolamento	>20 MΩ, 500 Vcc tra parti elettroniche e contenitore
Protezione elettrica	classe 2
Protezione meccanica	IP67
Reiezione alla luce ambiente	come prescritto da EN 60947-5-2
Vibrazioni	Ampiezza 0.5 mm, frequenza 10 ... 55 Hz, per ogni asse (EN60068-2-6)
Resistenza agli urti	11 ms (30 G) 6 shock per ogni asse (EN60068-2-27)
Materiale contenitore	Versione plastica PBT Versione metallica ottone nichelato
Materiale lenti	PMMA
Temperatura di funzionamento	-25 ... 55 °C (mod. Laser) -10 ... 50 °C
Temperatura di immagazzinamento	-25 ... 70 °C
Peso	Versione plastica 75 g max. vers. cavo (90 g max. mod. M03), 25 g max. vers. conn. (40 g max. mod. M03) Versione metallica 110 g max. vers. cavo (125 g max. mod. M03), 60 g max. vers. conn. (75 g max. mod. M03)

## S50

### DIMENSIONI

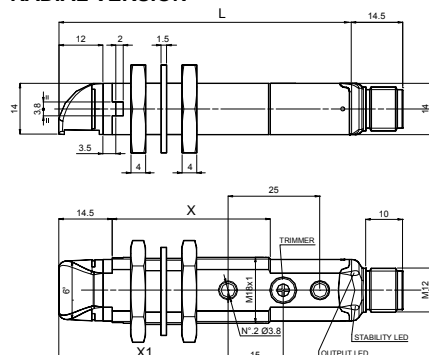
#### PLASTICA

##### AXIAL VERSION



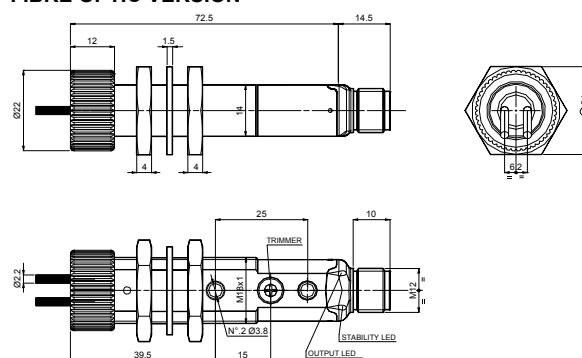
MODELS		
	with trimmer	without trimmer
L	67	57
X	43	42
X1	34	24

##### RADIAL VERSION



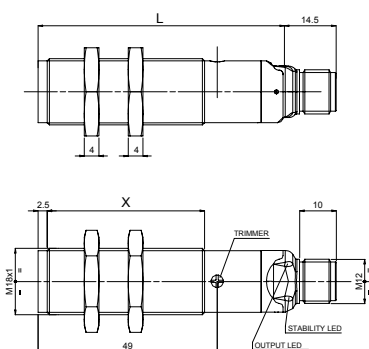
MODELS		
	with trimmer	without trimmer
L	79	69
X	43	42
X1	46	36

##### FIBRE OPTIC VERSION



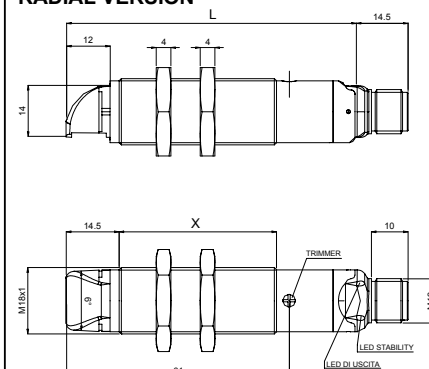
#### METALLO

##### AXIAL VERSION



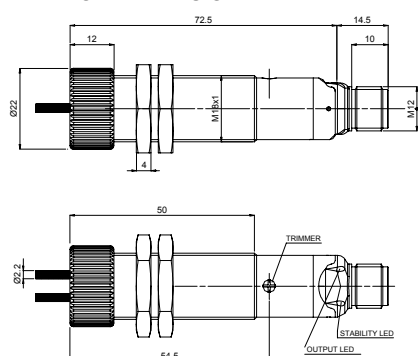
MODELS		
	with trimmer	without trimmer
L	67	57
X	43	38

##### RADIAL VERSION



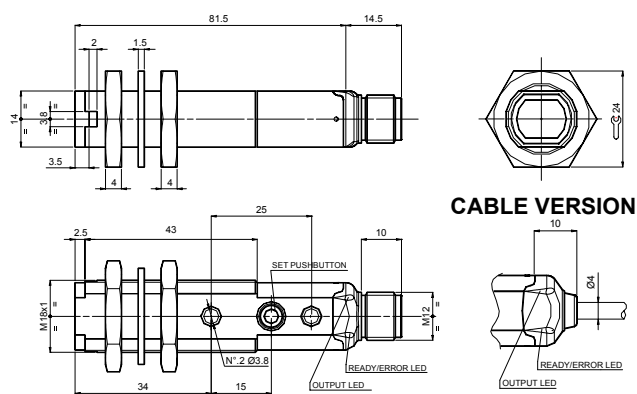
MODELS		
	with trimmer	without trimmer
L	79	69
X	43	38

##### FIBRE OPTIC VERSION

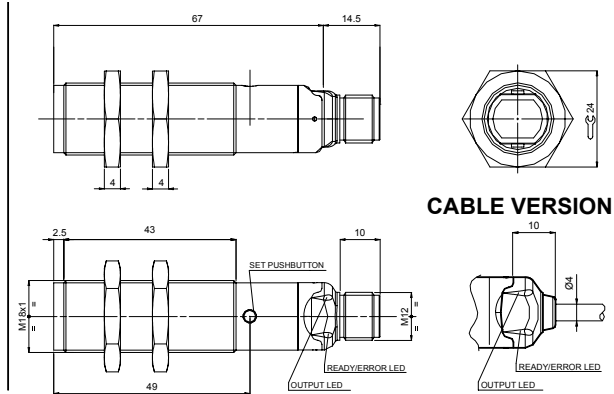


## SOPPRESSIONE DI SFONDO VERSIONE ASSIALE

### PLASTICA

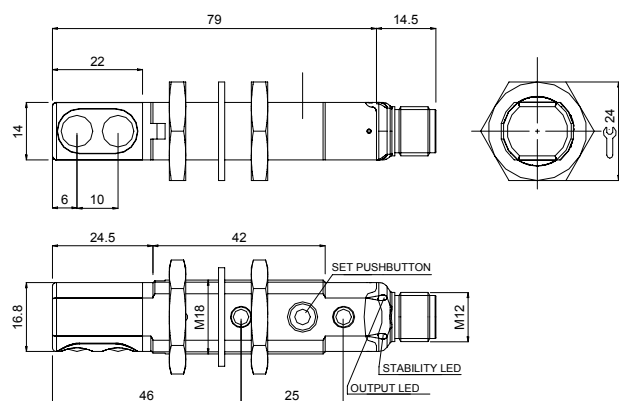


### METALLO

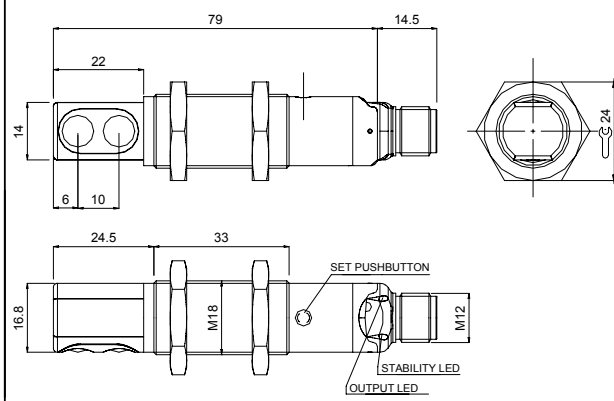


## SOPPRESSIONE DI SFONDO VERSIONE RADIALE

### PLASTICA

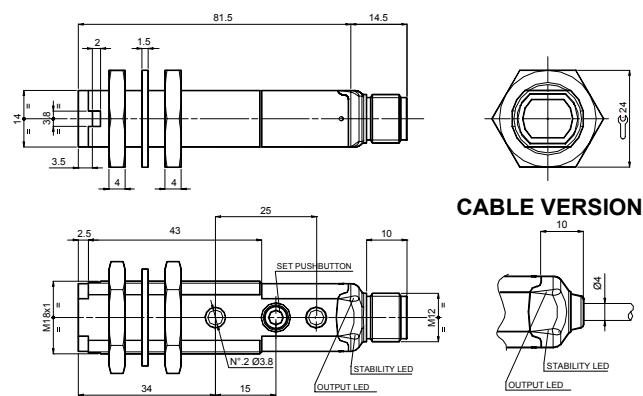


### METALLO

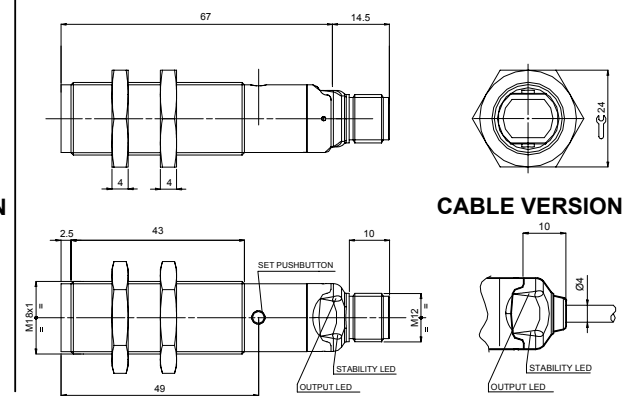


## LUMINESCENZA E CONTRASTO

### PLASTICA



### METALLO



## COLLEGAMENTI

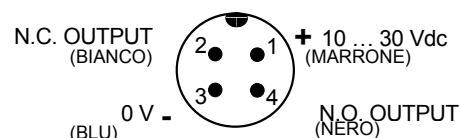
### CAVO

#### Proiettore

MARRONE	1	+	10 ... 30 Vdc
BIANCO	2		N.C. OUTPUT
NERO	4		N.O. OUTPUT
BLU	3	-	0 V

MARRONE	1	+	10 ... 30 Vdc
BIANCO	2		TEST +
NERO	4		TEST / NON USATO (versione Laser)
BLU	3	-	0 V

### CONNETTORE M12

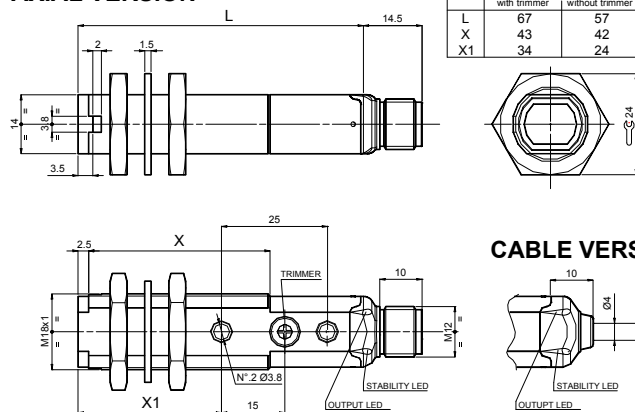


## S51

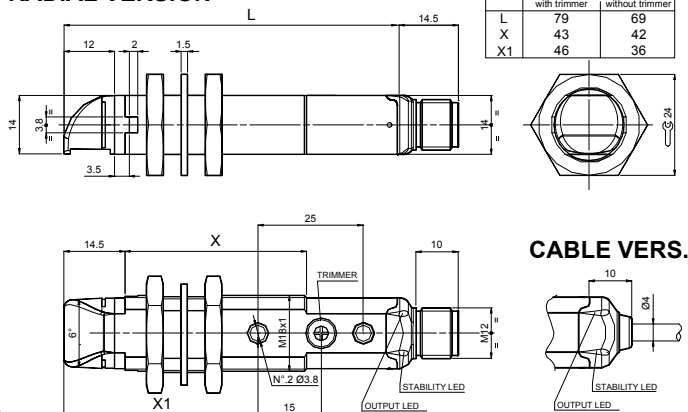
### DIMENSIONI

#### PLASTICA

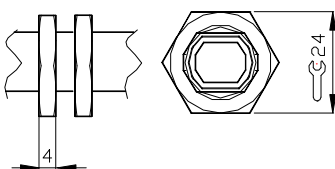
##### AXIAL VERSION



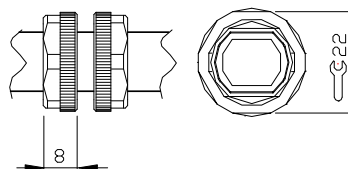
##### RADIAL VERSION



##### CH.24 PLASTIC NUTS

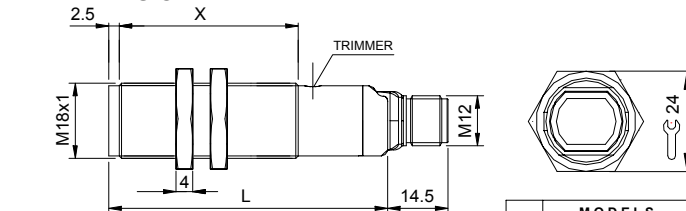


##### CH.22 PLASTIC NUTS

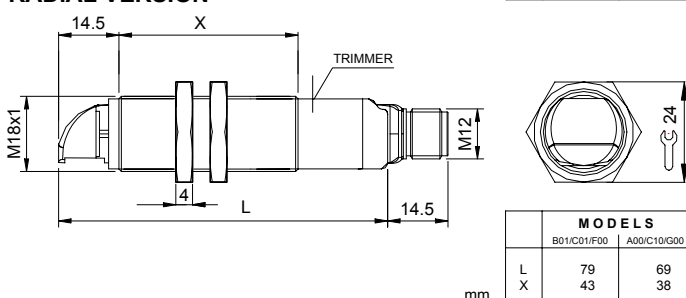


#### METALLO

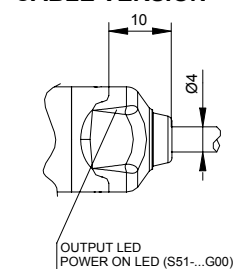
##### AXIAL VERSION



##### RADIAL VERSION

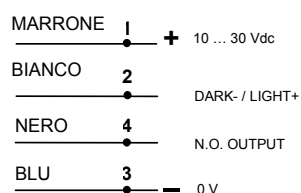


##### CABLE VERSION

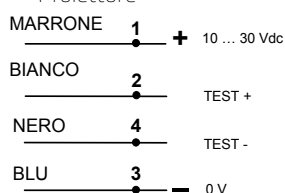


#### COLLEGAMENTI

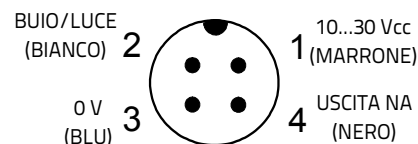
##### CAVO



##### Proiettore



##### CONNETTORE M12



## S50/S51

### INDICATORI E IMPOSTAZIONI

S50-XX...A00/B01/C01/C21/E01/F01/T01

S51-XX...B01/C01

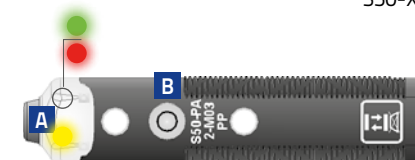


**A** LED giallo stato USCITA  
LED STABILITY verde (solo ricevitore)  
LED POWER ON verde (solo emettitore)

**B** Trimmer di regolazione (ricevitore)

Trimmer monogiro per regolazione sensibilità. Ruotare in senso orario per aumentare la distanza operativa.

S50-XX-M03/W03/U03



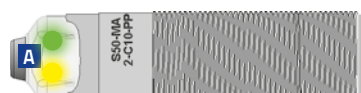
**A** LED giallo stato USCITA  
LED verde READY  
LED rosso ERROR

**B** Pulsante di teach-in

Tasto teach-in per impostazione.  
L'EASYtouch™ fornisce due modalità d'impostazione:  
standard o fine,  
ottenute entrambe premendo il tasto una volta sola. Per  
dettagli operativi si rimanda al manuale istruzioni..

S50-XX-C10

S51-XX-A00/C10/C20/F00/G00

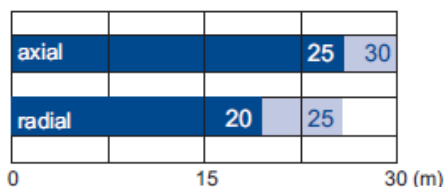


A00/C10/C20/F00  
**A** LED giallo stato USCITA  
LED verde STABILITY

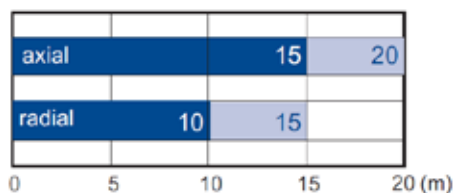
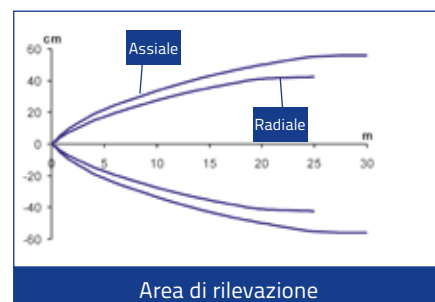
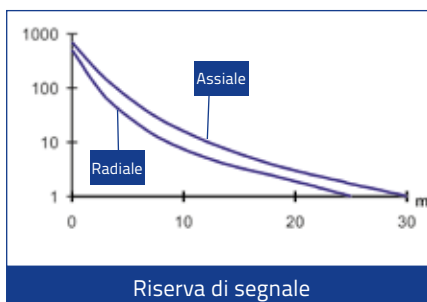
G00  
LED giallo stato USCITA (solo emettitore G00)

## S50 DIAGRAMMI DI RILEVAZIONE

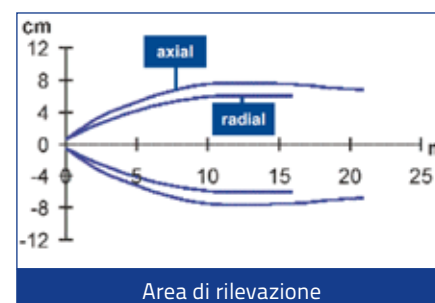
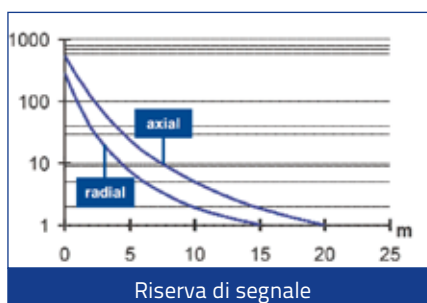
### G/F EMISSIONE INFRAROSSA



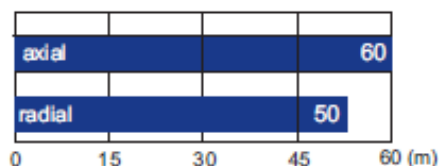
■ Distanza operativa raccomandata  
■ Distanza operativa massima



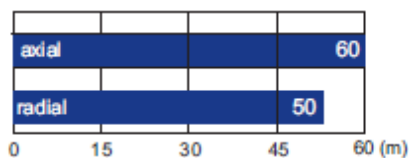
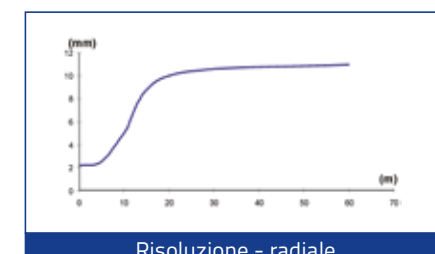
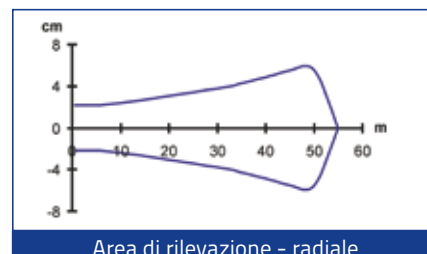
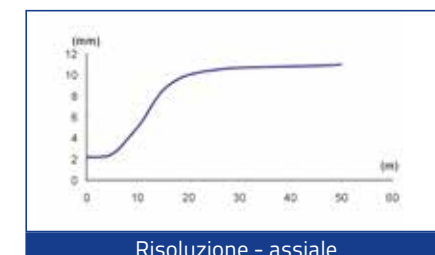
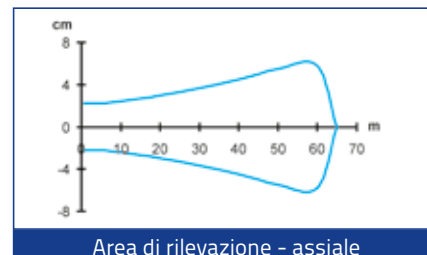
■ Distanza operativa raccomandata  
■ Distanza operativa massima



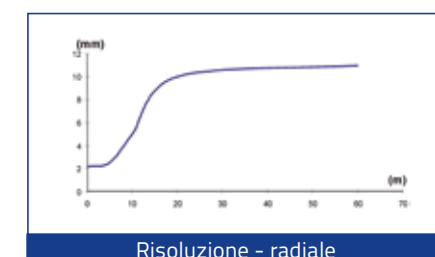
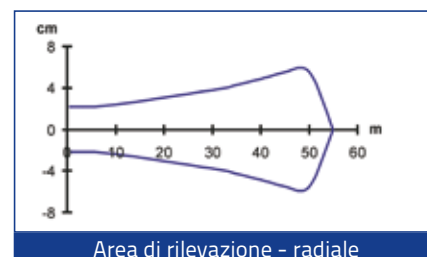
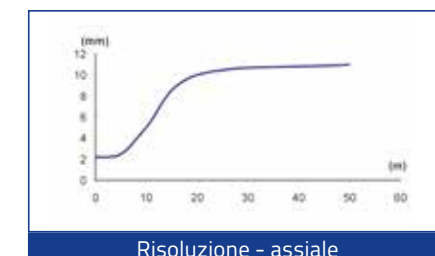
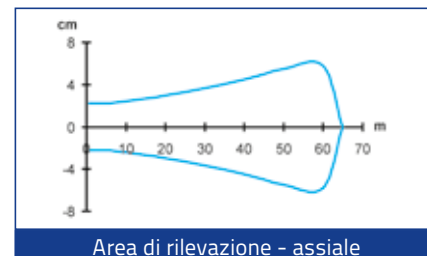
### G/F EMISSIONE LASER ROSSA



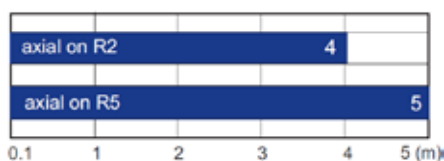
■ Distanza operativa



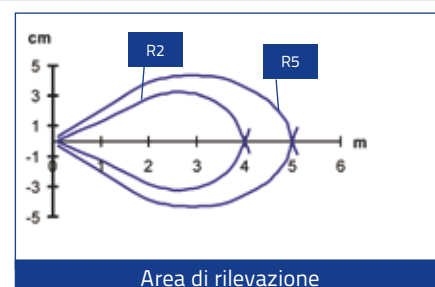
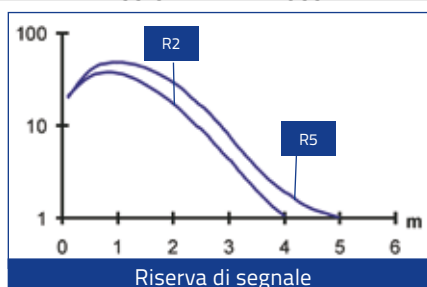
■ Distanza operativa



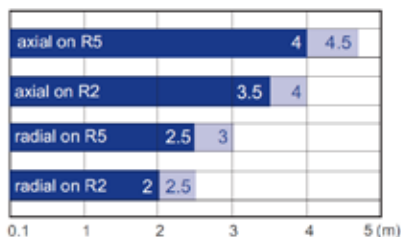
## A EMISSIONE INFRAROSSA



■ Distanza operativa



## B EMISSIONE ROSSA

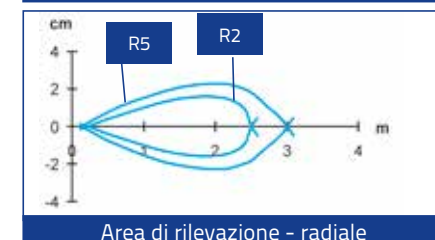
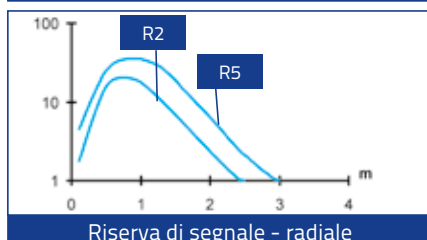
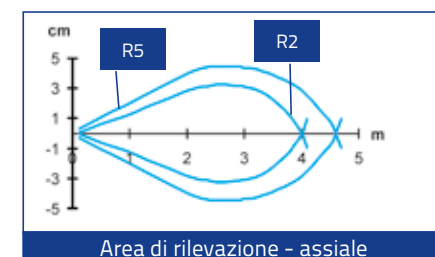
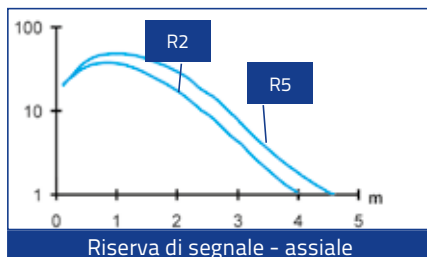


■ Distanza operativa raccomandata

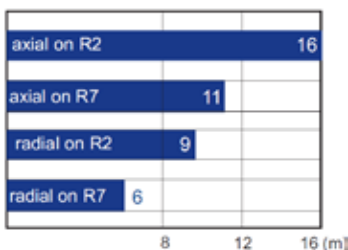
■ Distanza operativa massima

Riflettori ad alta efficienza possono essere usati per ottenere maggiori distanze operative.

Fare riferimento a **Riflettori** (A.01).



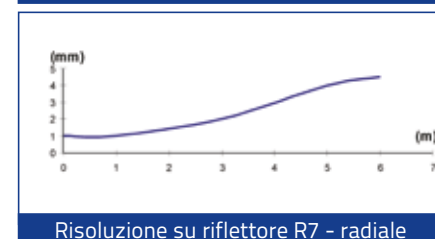
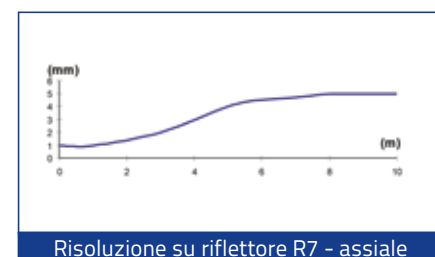
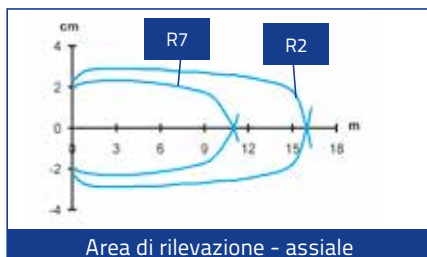
## B EMISSIONE LASER ROSSA



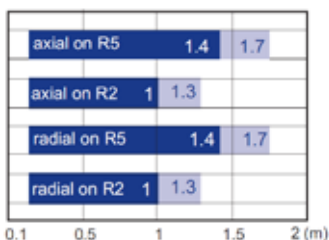
■ Distanza operativa

Riflettori ad alta efficienza possono essere usati per ottenere maggiori distanze operative.

Fare riferimento a **Riflettori** (A.01).

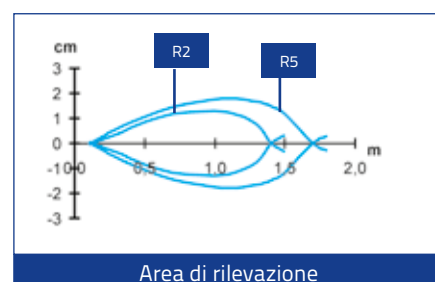
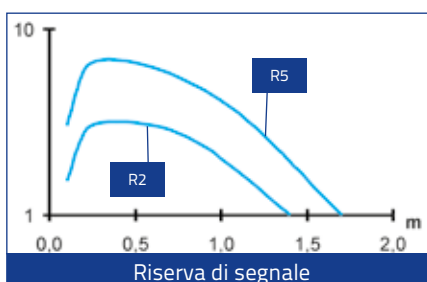


## T EMISSIONE ROSSA



■ Distanza operativa raccomandata

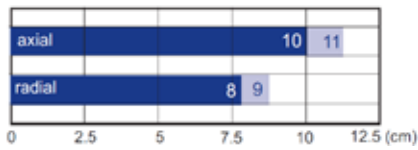
■ Distanza operativa massima



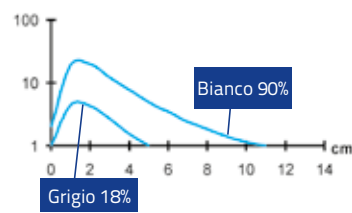
Riflettori ad alta efficienza possono essere usati per ottenere maggiori distanze operative. Fare riferimento a **Riflettori**.



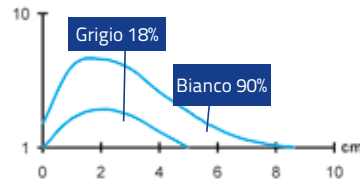
## C EMISSIONE INFRAROSSA CORTA



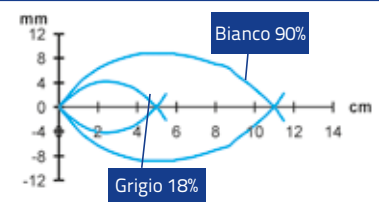
■ Distanza operativa raccomandata  
■ Distanza operativa massima



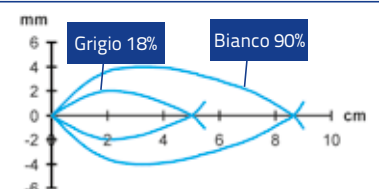
### Riserva di segnale - assiale



## Riserva di segnale - radiale

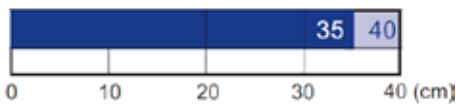


Area di rilevazione - assiale

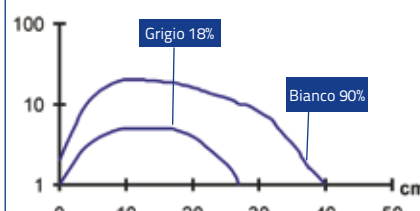


### Area di rilevazione - radiale

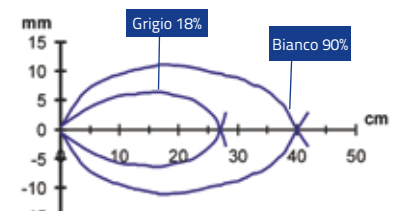
## C EMISSIONE INFRAROSSA MEDIA



■ Distanza operativa raccomandata  
■ Distanza operativa massima

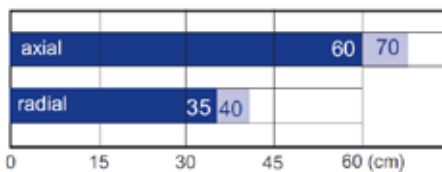


## Riserva di segnale

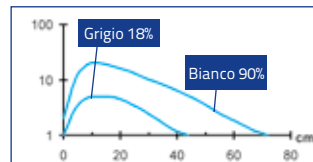


## Area di rilevazione

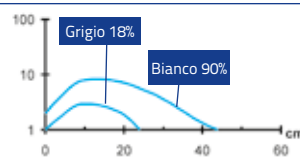
## C EMISSIONE INFRAROSSA LUNGA



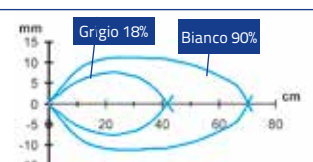
■ Distanza operativa raccomandata  
■ Distanza operativa massima



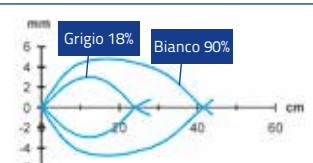
## Riserva di segnale - axial



## Riserva di segnale - radiale

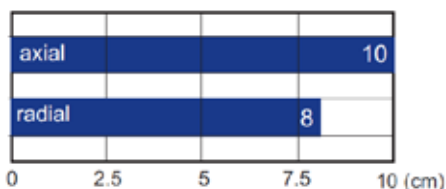


Area di rilevazione - assiale

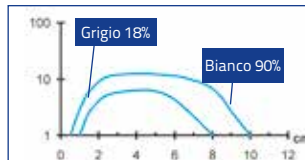


### Area di rilevazione - radiale

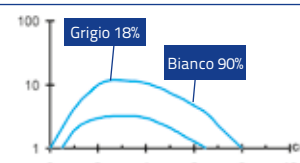
## D EMISSIONE ROSSA



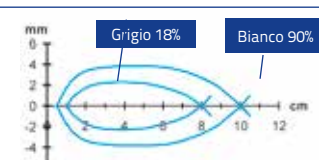
■ Distanza operativa



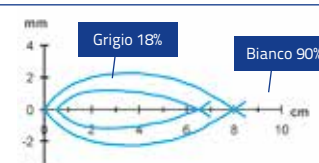
### Riserva di segnale - assiale



### Riserva di segnale - radiale

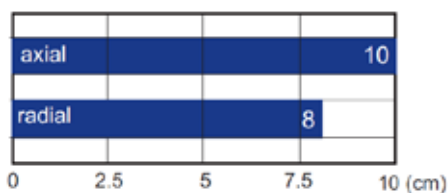


Area di rilevazione - assiale

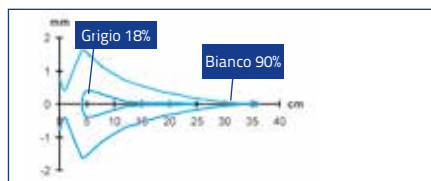


Area di rilevazione - radiale

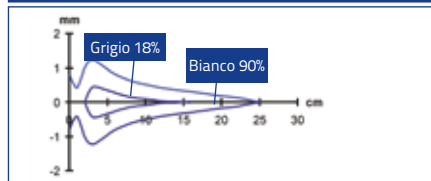
## C EMISSIONE LASER ROSSA



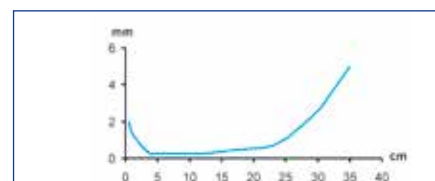
■ Distanza operativa



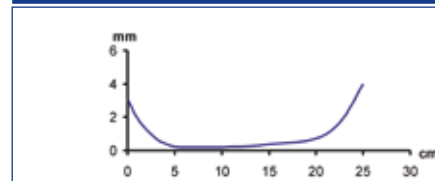
Area di rilevazione - assiale



Area di rilevazione - radiale

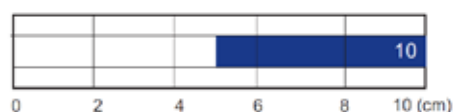


Risoluzione - assiale

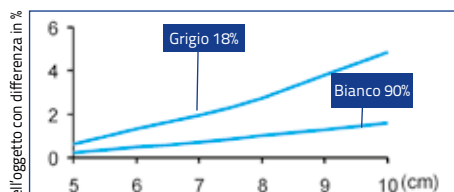


Risoluzione - radiale

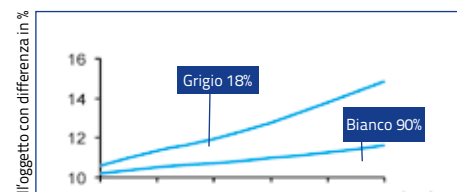
## M EMISSIONE ROSSA ASSIALE



■ Distanza operativa

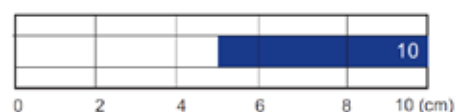


Differenza di rilevamento con acquisizione EASYtouch™

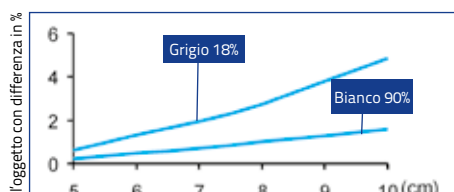


Differenza di rilevamento con acquisizione fine

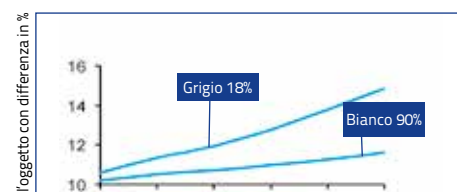
## M EMISSIONE ROSSA RADIALE



■ Distanza operativa

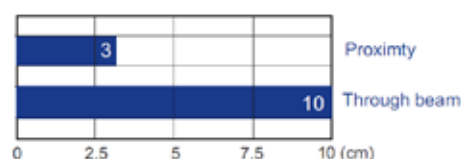


Differenza di rilevamento con acquisizione EASYtouch™



Differenza di rilevamento con acquisizione fine

## E EMISSIONE ROSSA



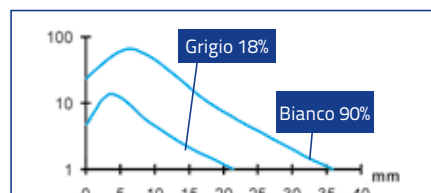
■ Distanza operativa con fibre ottiche standard

Fibre ottiche standard:

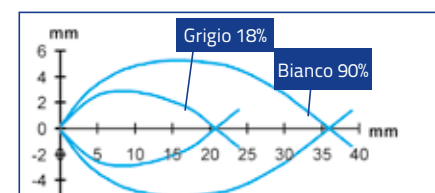
OF-42-ST-20 tasteggio

OF-43-ST-20 proiettore-ricevitore

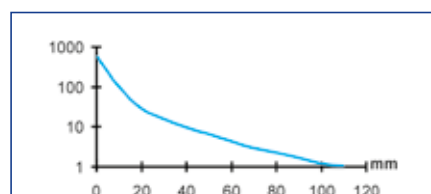
Fibre ottiche ad alta efficienza o lenti accessorie possono essere usate per ottenere distanze operative più ampie. Fare riferimento alle **Fibre ottiche** del **Catalogo Generale**



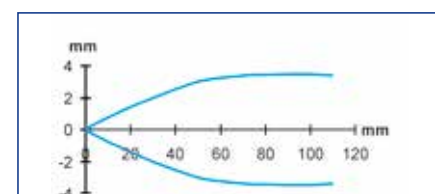
Riserva di segnale - tasteggio \*



Area di rilevazione - tasteggio \*



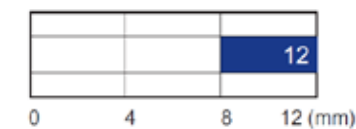
Riserva di segnale - proiettore-ricevitore \*



Area di rilevazione - proiettore-ricevitore \*

\* Fibre ottiche standard

## W EMISSIONE BIANCA



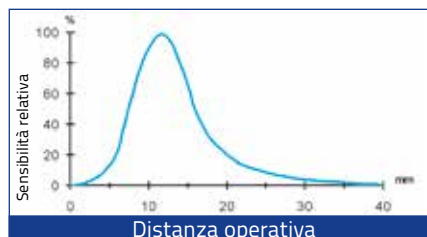
Distanza operativa



## U EMISSIONE UV

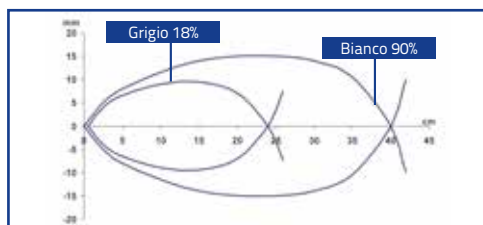


Distanza operativa

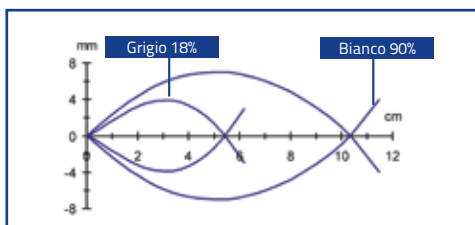


## S51 DIAGRAMMI DI RILEVAZIONE

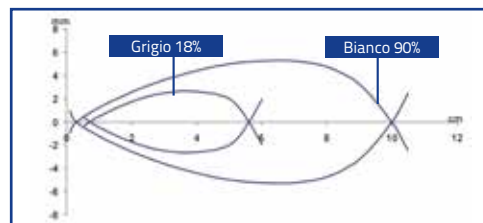
### M18 STANDARD



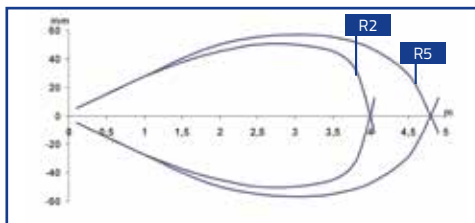
C01 - Tasteggio diffuso a lunga distanza



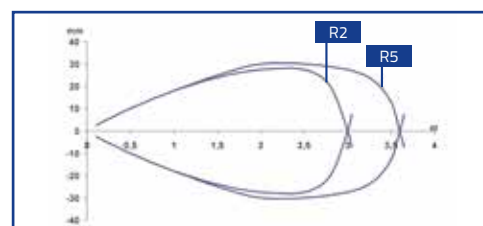
C10 - tasteggio diffuso a corta distanza



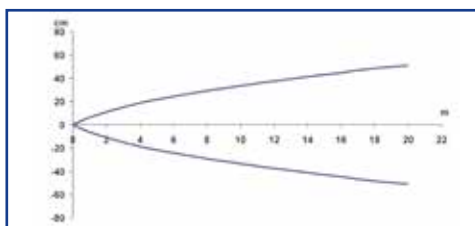
C20 - tasteggio fascio stretto



A00 - sbarramento a retroriflessione



B01 - sbarramento polarizzato



F00/G00 - proiettore-ricevitore

**Nota:** gli schemi indicano l'area di rilevazione tipica delle versioni con ottiche assiali; la distanza operativa massima delle versioni con ottiche radiali diminuisce come indicato nella tabella seguente

A00	3,5	4
A00	4	4,5
A00	2,5	3
A00	3	3,5

0 2,5 5 (m)

B01	2,5	3
B01	3	3,5
B01	2	2,5
B01	2,5	3

0 2 4 (m)

F/G	18	20
F/G	15	18

0 10 20 (m)

C01	40	50
C01	30	35

0 25 50 (cm)

C10/C20	10
C10	8

0 5 10 (cm)

Distanza operativa raccomandata

Distanza operativa massima

TABELLA DI SELEZIONE MODELLI E CODICI D'ORDINE

MODELLI IN PLASTICA S50					
FUNZIONE OTTICA	EMISSIONE	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Sbarramento a retroriflessione	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-A00-NN	952002090
			PNP	S50-PA-2-A00-PP	952002080
		Connettore M12	NPN	S50-PA-5-A00-NN	952002110
			PNP	S50-PA-5-A00-PP	952002100
Sbarramento polarizzato	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-B01-NN	952001610
			PNP	S50-PA-2-B01-PP	952001010
		Connettore M12	NPN	S50-PA-5-B01-NN	952001500
			PNP	S50-PA-5-B01-PP	952001020
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-B01-NN	952001780
			PNP	S50-PR-2-B01-PP	952001030
		Connettore M12	NPN	S50-PR-5-B01-NN	952001720
			PNP	S50-PR-5-B01-PP	952001040
	LASER, ottica assiale	Cavo 2m	NPN	S50-PL-2-B01-NN	952001870
			PNP	S50-PL-2-B01-PP	952001360
		Connettore M12	NPN	S50-PL-5-B01-NN	952001840
			PNP	S50-PL-5-B01-PP	952001370
	LASER, ottica radiale	Cavo 2m	NPN	S50-PH-2-B01-NN	952001950
			PNP	S50-PH-2-B01-PP	952001940
		Connettore M12	NPN	S50-PH-5-B01-NN	952001970
			PNP	S50-PH-5-B01-PP	952001960
Tasteggio diffuso a lunga distanza	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-C01-NN	952001620
			PNP	S50-PA-2-C01-PP	952001050
		Connettore M12	NPN	S50-PA-5-C01-NN	952001510
			PNP	S50-PA-5-C01-PP	952001060
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-C01-NN	952001790
			PNP	S50-PR-2-C01-PP	952001070
		Connettore M12	NPN	S50-PR-5-C01-NN	952001730
			PNP	S50-PR-5-C01-PP	952001080
	LASER, ottica assiale	Cavo 2m	NPN	S50-PL-2-C01-NN	952001880
			PNP	S50-PL-2-C01-PP	952001380
		Connettore M12	NPN	S50-PL-5-C01-NN	952001850
			PNP	S50-PL-5-C01-PP	952001390
	LASER, ottica radiale	Cavo 2m	NPN	S50-PH-2-C01-NN	952001990
			PNP	S50-PH-2-C01-PP	952001980
		Connettore M12	NPN	S50-PH-5-C01-NN	952002010
			PNP	S50-PH-5-C01-PP	952002000
Tasteggio diffuso a corta distanza	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-C10-NN	952001630
			PNP	S50-PA-2-C10-PP	952001240
		Connettore M12	NPN	S50-PA-5-C10-NN	952001520
			PNP	S50-PA-5-C10-PP	952001250
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-C10-NN	952001800
			PNP	S50-PR-2-C10-PP	952001490
		Connettore M12	NPN	S50-PR-5-C10-NN	952001740
			PNP	S50-PR-5-C10-PP	952001480
Tasteggio diffuso a media distanza	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-C21-NN	952002170
			PNP	S50-PA-2-C21-PP	952002160
		Connettore M12	NPN	S50-PA-5-C21-NN	952002190
			PNP	S50-PA-5-C21-PP	952002180
Focalizzato	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-D00-NN	952001640
			PNP	S50-PA-2-D00-PP	952001090
		Connettore M12	NPN	S50-PA-5-D00-NN	952001530
			PNP	S50-PA-5-D00-PP	952001100
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-D00-NN	952001810
			PNP	S50-PR-2-D00-PP	952001110
		Connettore M12	NPN	S50-PR-5-D00-NN	952001750
			PNP	S50-PR-5-D00-PP	952001120
Fibra ottica	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-E01-NN	952001650
			PNP	S50-PA-2-E01-PP	952001130
		Connettore M12	NPN	S50-PA-5-E01-NN	952001540
			PNP	S50-PA-5-E01-PP	952001140

FUNZIONE OTTICA	EMISSIONE	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Ricevitore	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-F01-NN	952001660
			PNP	S50-PA-2-F01-PP	952001150
		Connettore M12	NPN	S50-PA-5-F01-NN	952001550
			PNP	S50-PA-5-F01-PP	952001160
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-F01-NN	952001820
			PNP	S50-PR-2-F01-PP	952001170
		Connettore M12	NPN	S50-PR-5-F01-NN	952001760
			PNP	S50-PR-5-F01-PP	952001180
	LASER, ottica assiale	Cavo 2m	NPN	S50-PL-2-F01-NN	952001890
			PNP	S50-PL-2-F01-PP	952001400
		Connettore M12	NPN	S50-PL-5-F01-NN	952001860
			PNP	S50-PL-5-F01-PP	952001410
	LASER, ottica radiale	Cavo 2m	NPN	S50-PH-2-F01-NN	952002030
			PNP	S50-PH-2-F01-PP	952002020
		Connettore M12	NPN	S50-PH-5-F01-NN	952002050
			PNP	S50-PH-5-F01-PP	952002040
Proiettore	LED, ottica assiale	Cavo 2m	-	S50-PA-2-G00-XG	952001190
		Connettore M12	-	S50-PA-5-G00-XG	952001200
	LED, ottica radiale	Cavo 2m	-	S50-PR-2-G00-XG	952001210
		Connettore M12	-	S50-PR-5-G00-XG	952001220
	LASER, ottica assiale	Cavo 2m	-	S50-PL-2-G00-XG	952001420
		Connettore M12	-	S50-PL-5-G00-XG	952001430
	LASER, ottica radiale	Cavo 2m	-	S50-PH-2-G00-XG	952002060
		Connettore M12	-	S50-PH-5-G00-XG	952002070
Soppressione di sfondo	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-M03-NN	952001670
			PNP	S50-PA-2-M03-PP	952001230
		Connettore M12	NPN	S50-PA-5-M03-NN	952001560
			PNP	S50-PA-5-M03-PP	952001000
	LED, ottica radiale	Cavo 2m	NPN	S50-PS-2-M03-NN	952001900
			PNP	S50-PS-2-M03-PP	952001910
		Connettore M12	NPN	S50-PS-5-M03-NN	952001920
			PNP	S50-PS-5-M03-PP	952001930
Sbarramento per trasparenti	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-T01-NN	952001690
			PNP	S50-PA-2-T01-PP	952001260
		Connettore M12	NPN	S50-PA-5-T01-NN	952001580
			PNP	S50-PA-5-T01-PP	952001270
	LED, ottica radiale	Cavo 2m	NPN	S50-PR-2-T01-NN	952001830
			PNP	S50-PR-2-T01-PP	952001280
		Connettore M12	NPN	S50-PR-5-T01-NN	952001770
			PNP	S50-PR-5-T01-PP	952001290
Luminescenza	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-U03-NN	952001700
			PNP	S50-PA-2-U03-PP	952001300
		Connettore M12	NPN	S50-PA-5-U03-NN	952001590
			PNP	S50-PA-5-U03-PP	952001310
Contrasto	LED, ottica assiale	Cavo 2m	NPN	S50-PA-2-W03-NN	952001710
			PNP	S50-PA-2-W03-PP	952001320
		Connettore M12	NPN	S50-PA-5-W03-NN	952001600
			PNP	S50-PA-5-W03-PP	952001330

MODELLI METALLICI S50					
FUNZIONE OTTICA	EMISSIONE	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Sbarramento a retroriflessione	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-A00-NN	952022090
			PNP	S50-MA-2-A00-PP	952022080
		Connettore M12	NPN	S50-MA-5-A00-NN	952022110
			PNP	S50-MA-5-A00-PP	952022100
Sbarramento polarizzato	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-B01-NN	952021500
			PNP	S50-MA-2-B01-PP	952021000
		Connettore M12	NPN	S50-MA-5-B01-NN	952021660
			PNP	S50-MA-5-B01-PP	952021200
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-B01-NN	952021600
			PNP	S50-MR-2-B01-PP	952021140
		Connettore M12	NPN	S50-MR-5-B01-NN	952021760
			PNP	S50-MR-5-B01-PP	952021340
	LASER, ottica assiale	Cavo 2m	NPN	S50-ML-2-B01-NN	952021820
			PNP	S50-ML-2-B01-PP	952021400
		Connettore M12	NPN	S50-ML-5-B01-NN	952021850
			PNP	S50-ML-5-B01-PP	952021440
	LASER, ottica radiale	Cavo 2m	NPN	S50-MH-2-B01-NN	952021950
			PNP	S50-MH-2-B01-PP	952021940
		Connettore M12	NPN	S50-MH-5-B01-NN	952021970
			PNP	S50-MH-5-B01-PP	952021960
Tasteggio diffuso a lunga distanza	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-C01-NN	952021510
			PNP	S50-MA-2-C01-PP	952021010
		Connettore M12	NPN	S50-MA-5-C01-NN	952021670
			PNP	S50-MA-5-C01-PP	952021210
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-C01-NN	952021610
			PNP	S50-MR-2-C01-PP	952021150
		Connettore M12	NPN	S50-MR-5-C01-NN	952021770
			PNP	S50-MR-5-C01-PP	952021350
	LASER, ottica assiale	Cavo 2m	NPN	S50-ML-2-C01-NN	952021830
			PNP	S50-ML-2-C01-PP	952021410
		Connettore M12	NPN	S50-ML-5-C01-NN	952021860
			PNP	S50-ML-5-C01-PP	952021450
	LASER, ottica radiale	Cavo 2m	NPN	S50-MH-2-C01-NN	952021990
			PNP	S50-MH-2-C01-PP	952021980
		Connettore M12	NPN	S50-MH-5-C01-NN	952022010
			PNP	S50-MH-5-C01-PP	952022000
Tasteggio diffuso a corta distanza	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-C10-NN	952021520
			PNP	S50-MA-2-C10-PP	952021020
		Connettore M12	NPN	S50-MA-5-C10-NN	952021680
			PNP	S50-MA-5-C10-PP	952021220
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-C10-NN	952021620
			PNP	S50-MR-2-C10-PP	952021490
Tasteggio diffuso a media distanza	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-C21-NN	952022130
			PNP	S50-MA-2-C21-PP	952022120
		Connettore M12	NPN	S50-MA-5-C21-NN	952022150
			PNP	S50-MA-5-C21-PP	952022140
Focalizzato	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-D00-NN	952021530
			PNP	S50-MA-2-D00-PP	952021030
		Connettore M12	NPN	S50-MA-5-D00-NN	952021690
			PNP	S50-MA-5-D00-PP	952021230
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-D00-NN	952021630
			PNP	S50-MR-2-D00-PP	952021160
Fibra ottica	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-E01-NN	952021880
			PNP	S50-MA-2-E01-PP	952021040
		Connettore M12	NPN	S50-MA-5-E01-NN	952021890
			PNP	S50-MA-5-E01-PP	952021240

FUNZIONE OTTICA	EMISSIONE	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Ricevitore	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-F01-NN	952021540
			PNP	S50-MA-2-F01-PP	952021050
		Connettore M12	NPN	S50-MA-5-F01-NN	952021700
			PNP	S50-MA-5-F01-PP	952021250
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-F01-NN	952021640
			PNP	S50-MR-2-F01-PP	952021170
		Connettore M12	NPN	S50-MR-5-F01-NN	952021800
			PNP	S50-MR-5-F01-PP	952021370
	LASER, ottica assiale	Cavo 2m	NPN	S50-ML-2-F01-NN	952021840
			PNP	S50-ML-2-F01-PP	952021420
		Connettore M12	NPN	S50-ML-5-F01-NN	952021870
			PNP	S50-ML-5-F01-PP	952021460
	LASER, ottica radiale	Cavo 2m	NPN	S50-MH-2-F01-NN	952022030
			PNP	S50-MH-2-F01-PP	952022020
		Connettore M12	NPN	S50-MH-5-F01-NN	952022050
			PNP	S50-MH-5-F01-PP	952022040
Proiettore	LED, ottica assiale	Cavo 2m	-	S50-MA-2-G00-XG	952021060
		Connettore M12	-	S50-MA-5-G00-XG	952021260
	LED, ottica radiale	Cavo 2m	-	S50-MR-2-G00-XG	952021180
		Connettore M12	-	S50-MR-5-G00-XG	952021380
	LASER, ottica assiale	Cavo 2m	-	S50-ML-2-G00-XG	952021430
		Connettore M12	-	S50-ML-5-G00-XG	952021470
	LASER, ottica radiale	Cavo 2m	-	S50-MH-2-G00-XG	952022060
		Connettore M12	-	S50-MH-5-G00-XG	952022070
Soppressione di sfondo	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-M03-NN	952021550
			PNP	S50-MA-2-M03-PP	952021070
	LED, ottica radiale	Connettore M12	PNP	S50-MA-5-M03-PP	952021270
			PNP	S50-M5-2-M03-PP	952021910
Sbarramento per trasparenti	LED, ottica assiale	Cavo 2m	NPN	S50-MA-2-T01-NN	952021570
			PNP	S50-MA-2-T01-PP	952021090
		Connettore M12	NPN	S50-MA-5-T01-NN	952021730
			PNP	S50-MA-5-T01-PP	952021290
	LED, ottica radiale	Cavo 2m	NPN	S50-MR-2-T01-NN	952021650
			PNP	S50-MR-2-T01-PP	952021190
		Connettore M12	NPN	S50-MR-5-T01-NN	952021810
			PNP	S50-MR-5-T01-PP	952021390
Luminescenza	LED, ottica assiale	Connettore M12	PNP	S50-MA-5-U03-PP	952021300
Contrasto	LED, ottica assiale	Cavo 2m	PNP	S50-MA-2-W03-PP	952021110
		Connettore M12	NPN	S50-MA-5-W03-NN	952021750
			PNP	S50-MA-5-W03-PP	952021310

## MODELLI S51

FUNZIONE OTTICA	CONTENITORE/OTTICA	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Sbarramento a retroriflessione	Ottone nichelato, assiale	Cavo 2m	NPN	S51-MA-2-A00-NK	952701601
			PNP	S51-MA-2-A00-PK	952701541
		Connettore M12	NPN	S51-MA-5-A00-NK	952701801
			PNP	S51-MA-5-A00-PK	952701531
	Ottone nichelato, radiale	Cavo 2m	NPN	S51-MR-2-A00-NK	952701711
			PNP	S51-MR-2-A00-PK	952701651
		Connettore M12	NPN	S51-MR-5-A00-NK	952701911
			PNP	S51-MR-5-A00-PK	952701851
	Plastica, assiale	Cavo 2m	NPN	S51-PA-2-A00-NK	952701071
			PNP	S51-PA-2-A00-PK	952701001
		Connettore M12	NPN	S51-PA-5-A00-NK	952701331
			PNP	S51-PA-5-A00-PK	952701261
	Plastica, radiale	Cavo 2m	NPN	S51-PR-2-A00-NK	952701201
			PNP	S51-PR-2-A00-PK	952701131
		Connettore M12	NPN	S51-PR-5-A00-NK	952701461
			PNP	S51-PR-5-A00-PK	952701391



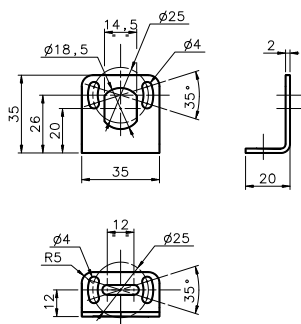
FUNZIONE OTTICA	EMISSIONE	COLLEGAMENTO	TIPO DI USCITA	MODELLO	N° ORDINE
Sbarramento polarizzato	Ottone nichelato, assiale	Cavo 2m	NPN	S51-MA-2-B01-NK	952701611
			PNP	S51-MA-2-B01-PK	952701551
		Connettore M12	NPN	S51-MA-5-B01-NK	952701811
			PNP	S51-MA-5-B01-PK	952701761
	Ottone nichelato, radiale	Cavo 2m	NPN	S51-MR-2-B01-NK	952701721
			PNP	S51-MR-2-B01-PK	952701661
		Connettore M12	NPN	S51-MR-5-B01-NK	952701921
			PNP	S51-MR-5-B01-PK	952701861
	Plastica, assiale	Cavo 2m	NPN	S51-PA-2-B01-NK	952701081
			PNP	S51-PA-2-B01-PK	952701011
		Connettore M12	NPN	S51-PA-5-B01-NK	952701341
			PNP	S51-PA-5-B01-PK	952701271
Tasteggio diffuso a media distanza	Ottone nichelato, assiale	Cavo 2m	NPN	S51-PR-2-B01-NK	952701211
			PNP	S51-PR-2-B01-PK	952701141
		Connettore M12	NPN	S51-PR-5-B01-NK	952701471
			PNP	S51-PR-5-B01-PK	952701401
	Ottone nichelato, radiale	Cavo 2m	NPN	S51-MA-2-C01-NK	952701621
			PNP	S51-MA-2-C01-PK	952701561
		Connettore M12	NPN	S51-MA-5-C01-NK	952701821
			PNP	S51-MA-5-C01-PK	952701771
	Plastica, assiale	Cavo 2m	NPN	S51-MR-2-C01-NK	952701731
			PNP	S51-MR-2-C01-PK	952701671
		Connettore M12	NPN	S51-MR-5-C01-NK	952701931
			PNP	S51-MR-5-C01-PK	952701871
	Plastica, radiale	Cavo 2m	NPN	S51-PA-2-C01-NK	952701091
			PNP	S51-PA-2-C01-PK	952701021
		Connettore M12	NPN	S51-PA-5-C01-NK	952701351
			PNP	S51-PA-5-C01-PK	952701281
Tasteggio diffuso a corta distanza	Ottone nichelato, assiale	Cavo 2m	NPN	S51-PR-2-C01-NK	952701221
			PNP	S51-PR-2-C01-PK	952701151
		Connettore M12	NPN	S51-PR-5-C01-NK	952701481
			PNP	S51-PR-5-C01-PK	952701411
	Ottone nichelato, radiale	Cavo 2m	NPN	S51-MA-2-C10-NK	952701631
			PNP	S51-MA-2-C10-PK	952701571
		Connettore M12	NPN	S51-MA-5-C10-NK	952701831
			PNP	S51-MA-5-C10-PK	952701521
	Plastica, assiale	Cavo 2m	NPN	S51-MR-2-C10-NK	952701741
			PNP	S51-MR-2-C10-PK	952701681
		Connettore M12	NPN	S51-MR-5-C10-NK	952701941
			PNP	S51-MR-5-C10-PK	952701881
	Plastica, radiale	Cavo 2m	NPN	S51-PA-2-C10-NK	952701101
			PNP	S51-PA-2-C10-PK	952701031
		Connettore M12	NPN	S51-PA-5-C10-NK	952701361
			PNP	S51-PA-5-C10-PK	952701291
Tasteggio fascio stretto	Ottone nichelato, assiale	Connettore M12	NPN	S51-PR-2-C10-NK	952701231
			PNP	S51-PR-2-C10-PK	952701161
			NPN	S51-PR-5-C10-NK	952701491
			PNP	S51-PR-5-C10-PK	952701421
Ricevitore	Ottone nichelato, assiale	Cavo 2m	NPN	S51-MA-5-C20-PK	952701961
			PNP	S51-MA-5-C20-PK	952701961
		Connettore M12	NPN	S51-MA-2-F00-NK	952701641
			PNP	S51-MA-2-F00-PK	952701581
	Ottone nichelato, radiale	Cavo 2m	NPN	S51-MA-5-F00-NK	952701841
			PNP	S51-MA-5-F00-PK	952701781
		Connettore M12	NPN	S51-MR-2-F00-NK	952701751
			PNP	S51-MR-2-F00-PK	952701691
	Plastica, assiale	Cavo 2m	NPN	S51-MR-5-F00-NK	952701951
			PNP	S51-MR-5-F00-PK	952701891
		Connettore M12	NPN	S51-PA-2-F00-NK	952701121
			PNP	S51-PA-2-F00-PK	952701051
	Plastica, radiale	Cavo 2m	NPN	S51-PA-5-F00-NK	952701381
			PNP	S51-PA-5-F00-PK	952701311
		Connettore M12	NPN	S51-PR-2-F00-NK	952701251
			PNP	S51-PR-2-F00-PK	952701181
Proiettore	Ottone nichelato, assiale	Cavo 2m	NPN	S51-PR-5-F00-NK	952701511
			PNP	S51-PR-5-F00-PK	952701441
		Connettore M12	-	S51-MA-2-G00-XG	952701591
			-	S51-MA-5-G00-XG	952701791
	Ottone nichelato, radiale	Cavo 2m	-	S51-MR-2-G00-XG	952701701
		Connettore M12	-	S51-MR-5-G00-XG	952701901
	Plastica, assiale	Cavo 2m	-	S51-PA-2-G00-XG	952701061
		Connettore M12	-	S51-PA-5-G00-XG	952701321
	Plastica, radiale	Cavo 2m	-	S51-PR-2-G00-XG	952701191
		Connettore M12	-	S51-PR-5-G00-XG	952701451



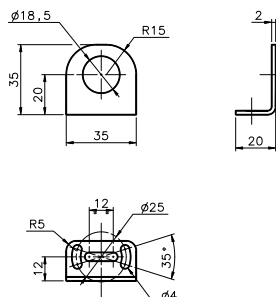
## S50/S51

### ACCESSORI

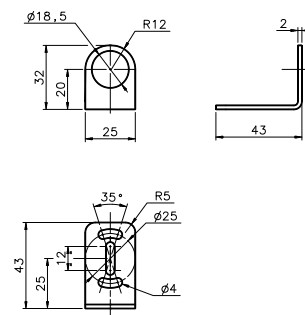
ST-5010



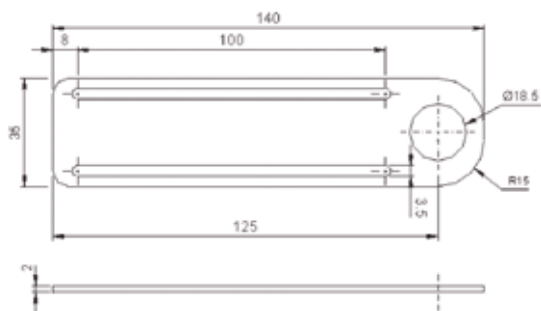
ST-5011



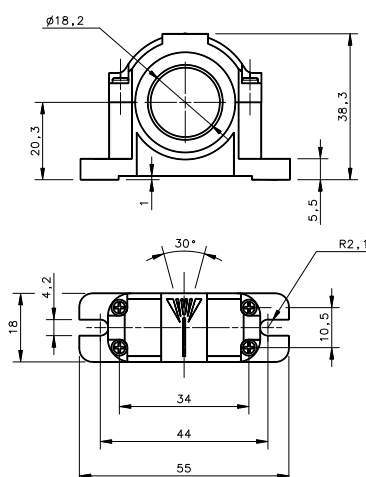
ST-5012



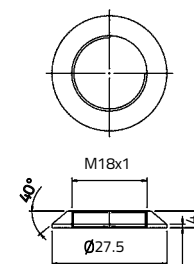
ST-5017



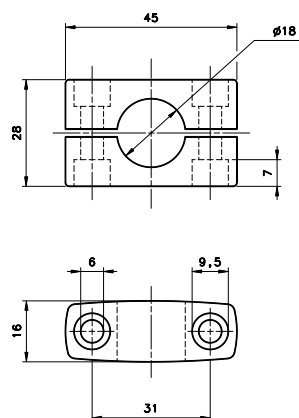
SWING-18



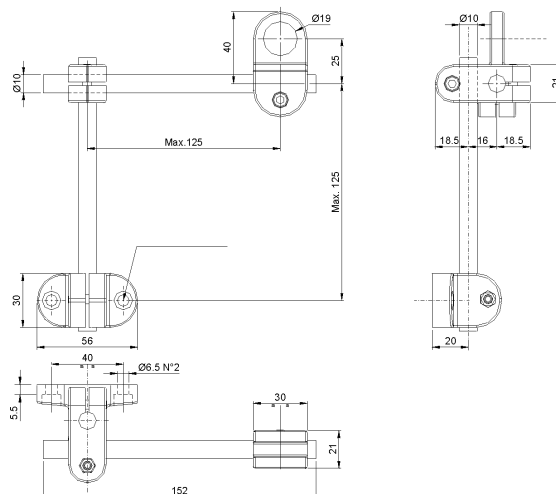
DADO IN PLASTICA



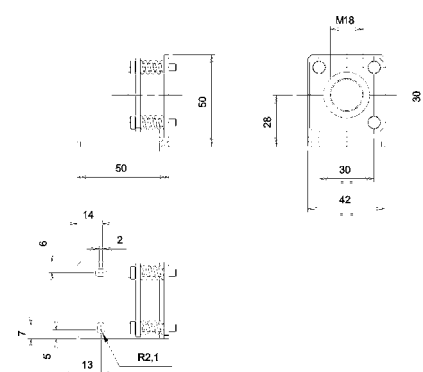
SP-40



JOINT 18



MICRO 18



MODELLO	DESCRIZIONE	N° ORDINE
ST-5010	Staffa di fissaggio M18/14	95ACC5230
ST-5011	Staffa di fissaggio M18 corta	95ACC5240
ST-5012	Staffa di fissaggio M18 lunga	95ACC5250
ST-5017	Staffa di fissaggio M18	95ACC5270
S50 EASY -IN	Supporto fissaggio regolabile M18/14 EASY in™	95ACC 5300
JOINT -18	supporto snodato M18	95ACC 5220
MICRO -18	supporto con regolazione micrometrica per sensori tubolari M18	95ACC 1380
ST1218	Staffe di fissaggio M12/M18	95ACC3340
ST1830	Staffe di fissaggio M18/M30	95ACC3350
SP-40	Staffa di fissaggio tubolare	95ACC1370
SWING-18	supporto regolabile per sensori tubolari M18	895000006
DADO IN PLASTICA	Dado di fissaggio svasato	95ACC2630
MEK -PROOF	protezione frontale (solo per modelli metallici)	G5000001

## CAVI

TIPO	DESCRIZIONE	LUNGHEZZA	MODELLO	N° ORDINE
Connettore M12 assiale	4 poli, grigio, PVC	3 m	CS-A1-02-G-03	95A251380
		5 m	CS-A1-02-G-05	95A251270
		7 m	CS-A1-02-G-07	95A251280
		10 m	CS-A1-02-G-10	95A251390
	4 poli, PUR	2 m	CS-A1-02-R-02	95A251540
		5 m	CS-A1-02-R-05	95A251560
Connettore M12 radiale	4 poli, grigio, PVC	3 m	CS-A2-02-G-03	95A251360
		5 m	CS-A2-02-G-05	95A251240
		7 m	CS-A2-02-G-07	95A251245
		10 m	CS-A2-02-G-10	95A251260
	4 poli, PUR	2 m	CS-A2-02-R-02	95A251550
		5 m	CS-A2-02-R-05	95A251570
Connettore M12 radiale con LED (per sensori NA PNP)	4 poli, grigio, PVC	3 m	CS-A2-12-G-03	95A251400
		5 m	CS-A2-12-G-05	95A251350
		10 m	CS-A2-12-G-10	95A251370
Connettore M12 assiale	4 poli, schermato, nero, PVC	3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
		10 m	CV-A1-22-B-10	95ACC1500
		15 m	CV-A1-22-B-15	95ACC2070
		25 m	CV-A1-22-B-25	95ACC2090
Connettore M12 radiale		3 m	CV-A2-22-B-03	95ACC1540
		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
Connettore M12 assiale	4 poli, UL, nero, PVC	3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
		10 m	CS-A1-02-U-10	95ASE1140
		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	4 poli, nero	Connettore- non cablato		CS-A1-02-B-NC
Connettore- non cablato		CS-A2-02-B-NC	G5085003	