

Optical Fibre Amplifiers



FY series



Micro Detectors



Italian Sensors Technology

FinMasi Group Company



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Optical Fibre Amplifiers

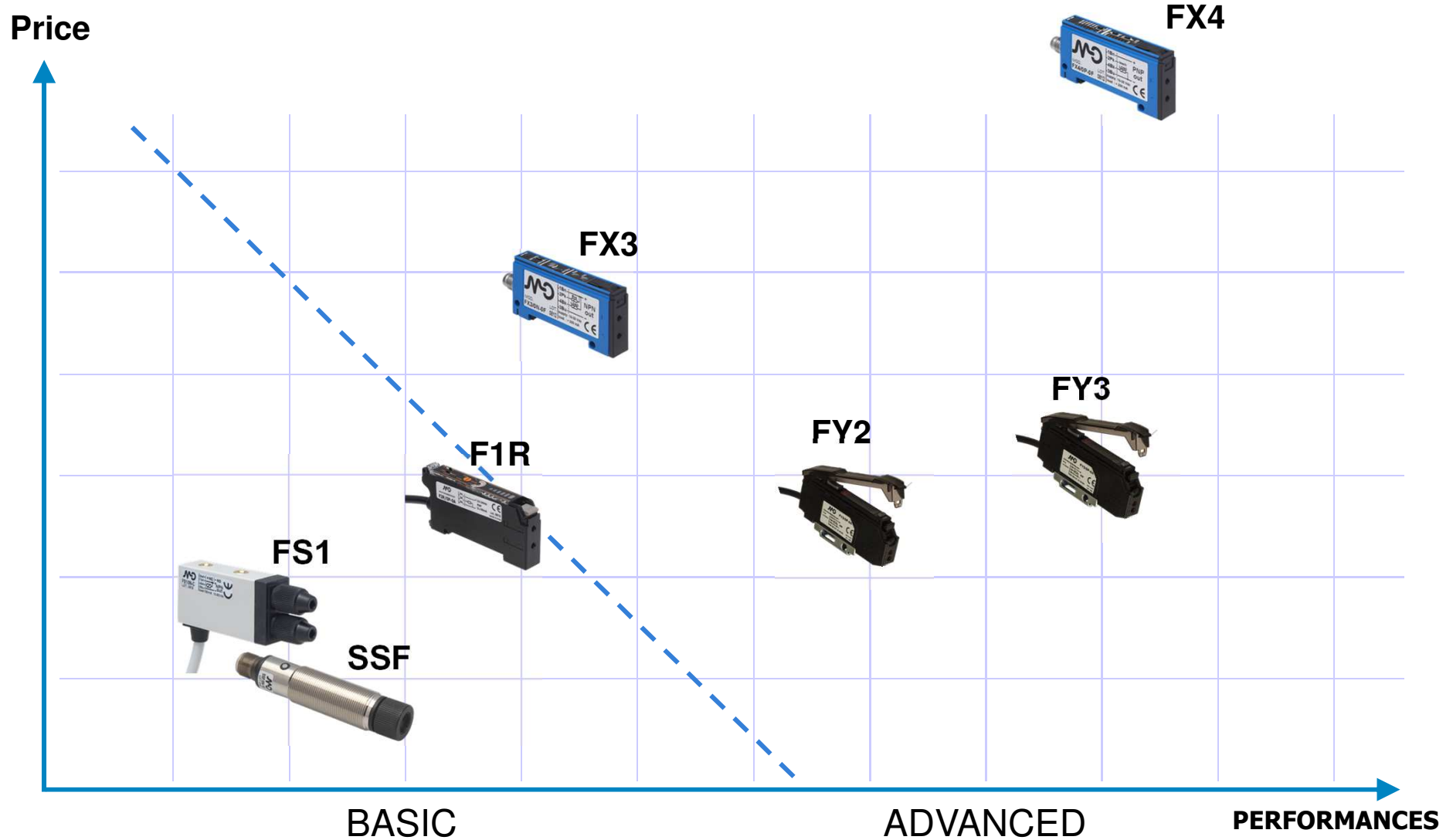
PRODUCT HIGHLIGHTS











- 71,8 x 30 x 9.8 mm Dimensions**
- DIN rail**
- Red Emission**
- Double Display**
- Adjustment by Teach**
- PC housing**
- Response time: from 250µs to 16ms**
- MODE selectable : HIGH SPEED, FINE, SUPER, MEGA**
- Delay function**
- Anti mutual interference**
- Cable or pig-tail M8**
- Protection degree IP64**
- Operative temperature range -20°...+55°C**

CE

Optical Fibre Amplifiers



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	FS1	SSF	F1R	FY2	FY3	FX3	FX4
							
DIN rail			✓	✓	✓	✓	✓
Teach adj.		✓		✓	✓		✓
Double display				✓	✓		
MODE: Response time selected				✓	✓		
Delay				✓	✓		✓
Anti-mutual interference					✓		
Outputs: cable & M8 /M12	✓	✓		✓	✓	✓	✓
Glass fibres	✓	✓				✓	✓

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FY2/OP-0A

Models

2 = ADVANCE

3 = SUPER ADVANCE

Output

0= select outputs.
(Lo/Do)

CORPO

0 = Plastic

Logic outputs

P = PNP

N = NPN

Connection

A = cable (2m)

V = Pig-tail with plug M8
(4pin)

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Available codes

Dimensioni Dimensions (mm)	Barra DIN DIN rail	Regolazione Adjustment	Serie Series	funzione anti mutua interferenza anti-mutual interference	Uscita Exit	Logica PNP (Lo/Do)	Logica NPN (Lo/Do)
71,8 x 30,3 x 9,80 mm	Sì/Yes	Pulsante Teach-in	FY2	No	Cavo cable	FY2/0P-0A	FY2/0N-0A
					Con M8 4pin	FY2/0P-0V	FY2/0N-0V
			FY3	Sì Yes	Cavo cable	FY3/0P-0A	FY3/0N-0A
					Con M8 4pin	FY3/0P-0V	FY3/0N-0V

NON SUPPORTANO LE FIBRE IN VETRO SERIE CV

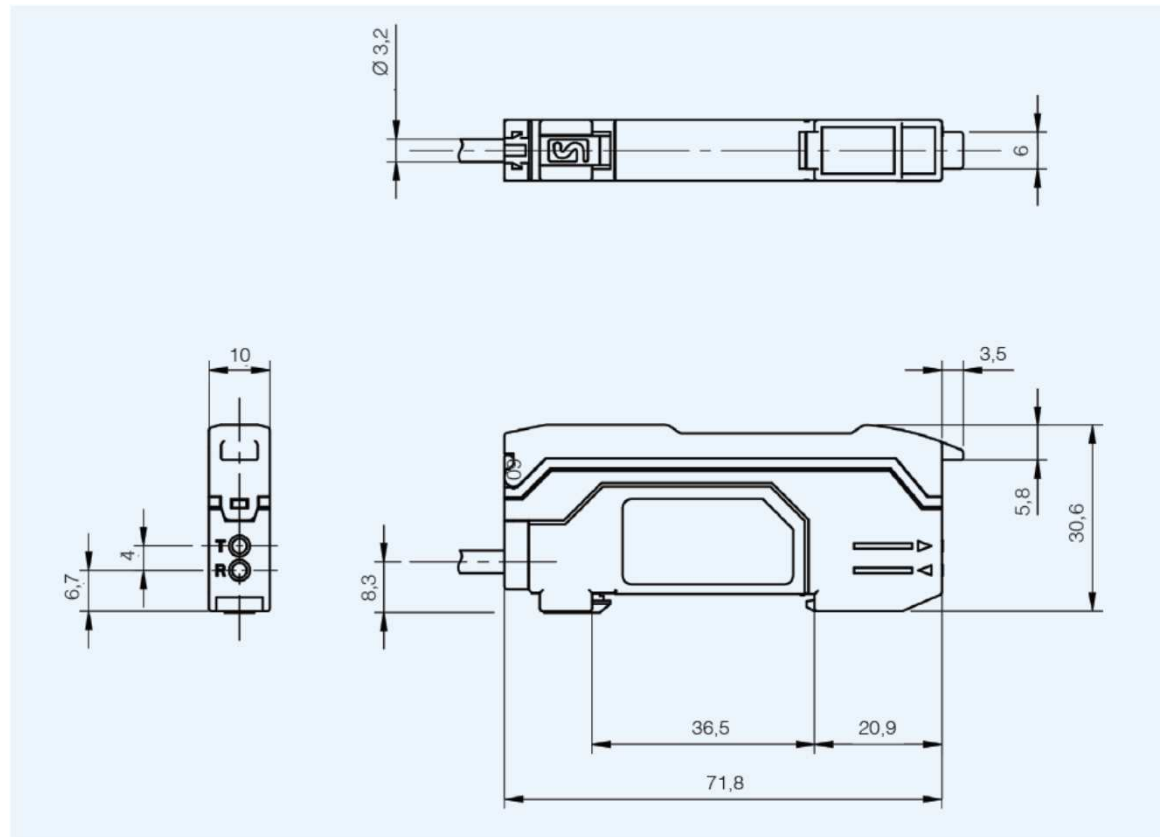
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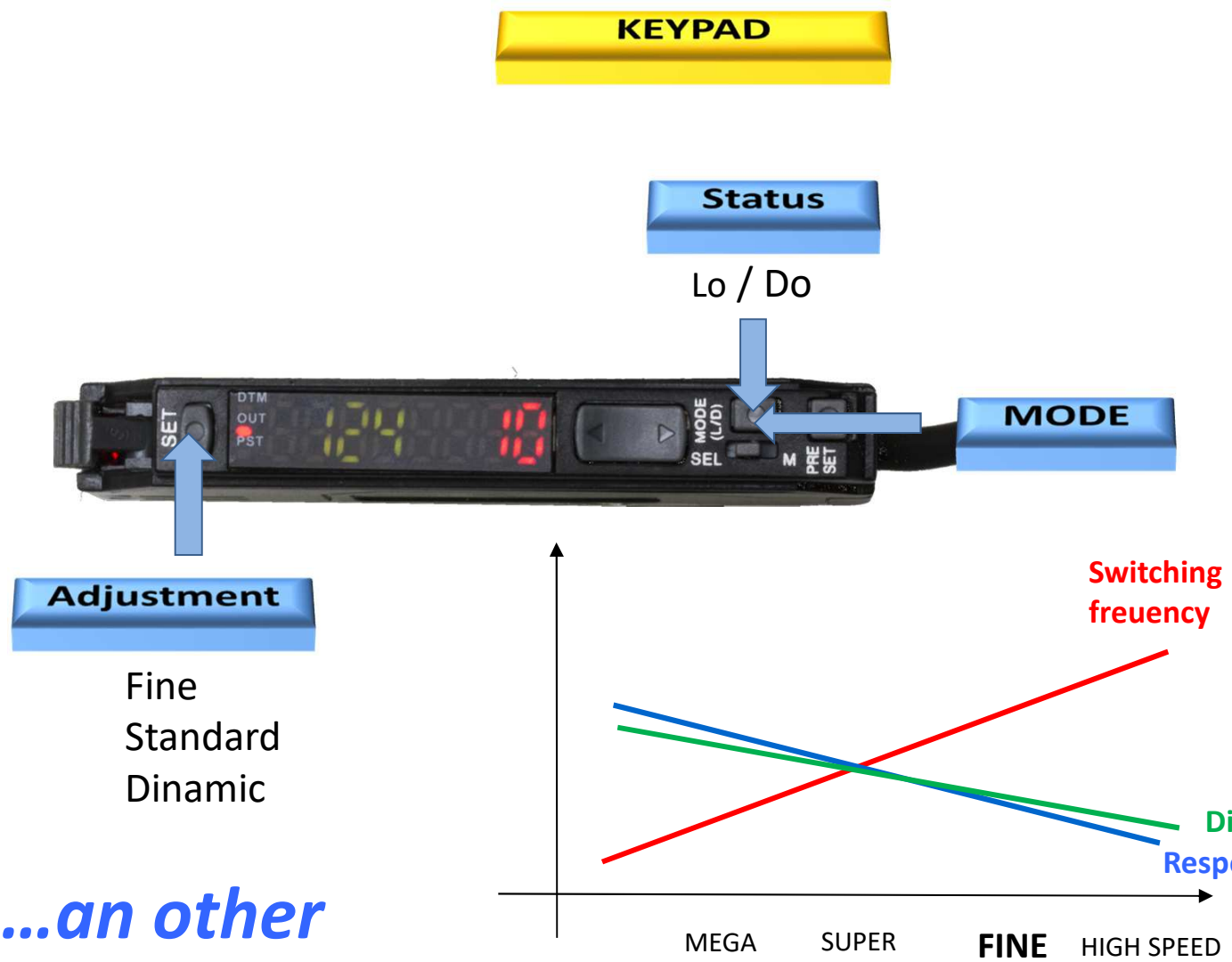
	FY2/0*-0*	FY3/0*-0*
Distanza nominale Sensing distance	Guardare la tabella delle fibre ottiche See optical fibres table	
Emissione Emission	Rossa Red (680nm)	
Tensione di alimentazione Operating Voltage	12...24Vdc	
Ripple	10%	
Assorbimento in corrente No-load supply voltage	≤ 50mA	≤ 40mA
Corrente massima sul carico Maximum load current	≤ 100mA	
Tensione uscita Out voltage Vdrop	≤ 1,5V	≤ 1 V
Tipo d'uscita Output type	NPN or PNP (Lon/Don)	
Tempo di risposta Responce time	40µs(HIGH SPEED) 250 µs (FINE) 1ms (SUPER) 16ms(MEGA)	OFF: 100µs(HIGH SPEED) 250 µs (FINE) 1ms (SUPER) 8ms(MEGA) ON: 300µs(HIGH SPEED) 500 µs (FINE) 2ms (SUPER) 16ms(MEGA) Anti-mutua Int 2ms
Corrente di fuga Leakage current	≤ 10µA	≤ 10µA
Funzione Anti mutua interferenza Anti mutual interference function	No	Sì Yes
Protezione sull'alimentazione Power supply protection	Polarità inversa Polarity inversal	
Protezioni uscita Output protection	Sovratensione Overvoltage	
Temporizzazione Timer funtion	Ritardo Delay ON Ritardo Delay OFF uscita a impulsi ONE SHOT	
Temperatura di lavoro Operative temperature	-20°C....+55°C (senza condensa Without freeze)	
EMC	In conformità con EMC (in accordo con EN 60947-5-2))	
Interferenza alla luce Interference light	Lampada Incandescenza Incadascence lamp 20Klux	Luce solare Sunlight 30Klux
Umidità Humidiy	35...85%	
Led	Rosso Red (stato d'uscita, output)	
Grado di protezione Protection degree	IP64	
Materiale corpo Housing Material	PC	
Dimensioni Dimension	71,8 x 30,3 x 9,80 mm	
Connessione Connection	Cavo cable 2m Pig-tal 150mm conn. M8 4pin	
Peso Weight	50g (cavo cable) 80g (pig-tail M8)	

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MECHANICAL DIMENSIONS



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...an other

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Other :

Anti mutual interference : 4 sensors

FY3



Delay ON, Delay OFF, ONE SHOT

FY2, FY3



Detection object with shiny background or the opposite

FY2, FY3



Optical Fibre Amplifiers

FY2 models

High frequency



FY3 models

High precision

More power

Anti mutual interference



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SICK

OMRON

DATALOGIC™

SUNX

KEYENCE

Leuze electronic

TAKEX

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