



# FY series

Advanced fiber amplifiers



## features

- Double display: signal value and threshold
- Anti mutual interference function (x 4 sensors)
- Adjustment by teach in
- PNP or NPN output
- Delay function output
- 4 response time selectable
- Connection by cable or cable with M8 plug

## web contents

- Application notes
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Advantage fiber amplifiers



## code description

FY 2 / 0 P - 0 A

series	<b>FY</b>	Advanced amplifiers DIN rail double display, teach-in adjustment
model	<b>2</b>	Basic model response time selectable delay
	<b>3</b>	Advanced model response time selectable delay, anti-mutual interference
LO / DO	<b>0</b>	LO/DO function selectable
PNP / NPN output	<b>P</b>	PNP output
	<b>N</b>	NPN output
housing	<b>0</b>	Plastic housing
cable / plug output	<b>A</b>	Cable output 2 m
	<b>V</b>	Pig-tail cable 150 mm + M8 4 pin plug

## available models

dimensions (mm)	series	DIN rail	adjustment	exit	PNP		NPN	
					NO / NC	NO / NC	NO / NC	NO / NC
71,8 x 30,3 x 9,80	FY2	●	Teach-In	Pig-tail	FY2/0P-0A	FY2/0N-0A		
				M8 4 pin plug	FY2/0P-0V	FY2/0N-0V		
	FY3			Pig-tail	FY3/0P-0A	FY3/0N-0A		
				M8 4 pin plug	FY3/0P-0V	FY3/0N-0V		

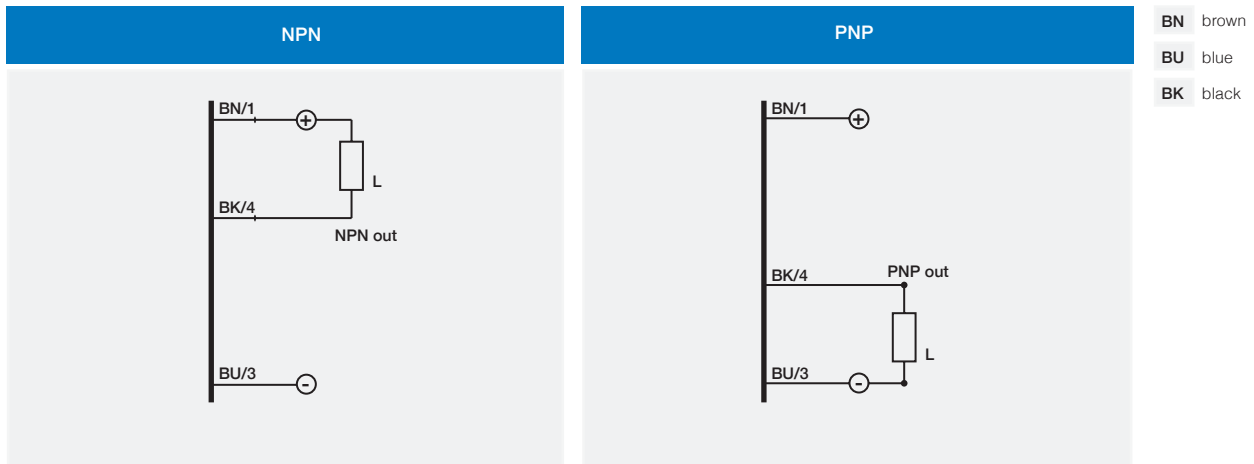


# technical specification

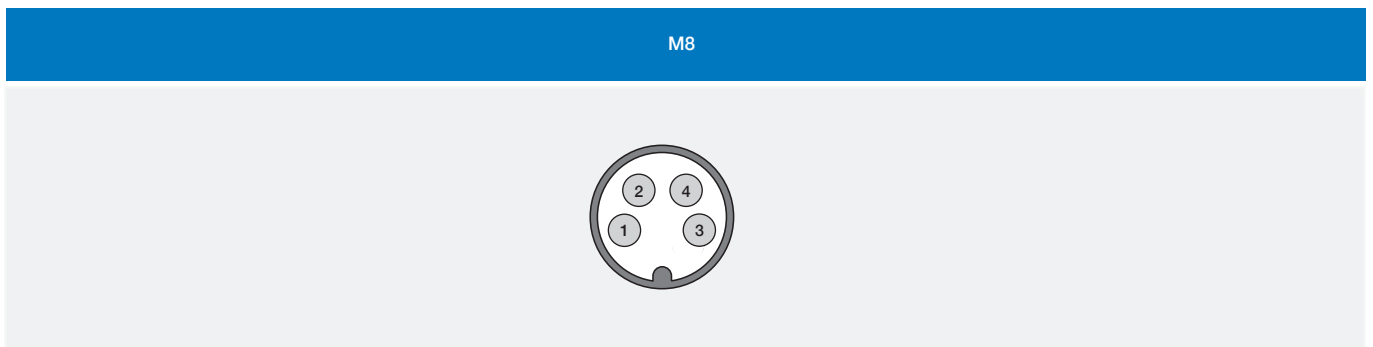
Advantage fiber amplifiers

	FY2/0*-0*	FY3/0*-0*
Sensing distance	See optical fibres table	
Emission	Red (680nm)	
Operating Voltage	12...24Vdc	
Ripple	10%	
No-load supply voltage	≤ 50mA	≤ 40mA
Maximum load current	≤ 100mA	
Out voltage drop	≤ 1,5V	≤ 1 V
Output type	NPN or PNP (Lon/Don)	
Response 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
Leakage current	≤ 10µA	≤ 10µA
Anti mutual interference function	No	Yes
Power supply protection	Polarity inversal	
Output protection	Overcurrent Overvoltage	
Timer function	Delay ON Delay OFF ONE SHOT	
Operative temperature	-20°C....+55°C (without freeze)	
EMC	In conformity with EMC (according to EN 60947-5-2)	
Interference light	Incandescence Lamp 20 Klux - Sunlight 30 Klux	
Humidity	35...85%	
Protection degree	IP64	
Housing Material	PC	
Dimension	71,8 x 30,3 x 9,80 mm	
Connection	Cable 2m, Pig-tail 150mm conn. M8 4pin	
Weight	50g (cable), 80g (pig-tail M8)	

## electrical diagrams of the connections



## plug





# key panel



# dimensions (mm)

