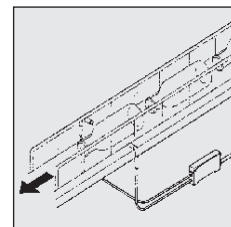


FX11/12/13 Series

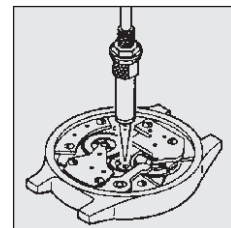
Amplifiers for Fibre Optic Sensors

With its small size and superior characteristics, the series is classed at the pinnacle of fibre optic sensing. Simple to set up and operate with a range of additional intelligent functions, the series offers a wide range of specialized optical fibres.

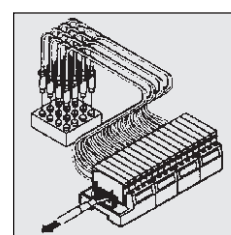
With a response time of typically 30 μ s, the small, space saving, position independent, easily installed series can detect extremely thin objects.



Object detection



Component control



Combined positioning

Characteristics:

- Narrow design (10mm!)
- Response time typically 30 μ s
- Fine potentiometer sensitivity adjustment
- Stability indicator
- Crosstalk suppression
- Self diagnosis on contamination of the lens
- OFF-delay
- Cable or connector type
- Large range of standard and special optical fibres.

NPN output	FX11 (J)/FX11G*	FX12 (J)	FX13
PNP output	FX11P (J)	FX12P (J)	FX13P (J)
* Green LED type	Sensitive Type	Long sensing range	High speed Type
OFF delay timing	40ms		
Cross talk prevention	●		
Distance adjustment	8-turn adjuster with indicator		
Sensing range	Dependent on fibre type used		
Response time	max. 0.3ms / 0.8ms*	max. 0.4ms	max. 30 μ s
Outputs	Transistor	max. 100mA	
	Self diagnostic	max. 50mA	
Wavelength of emitting diode	660nm, Red LED		
Rated current consumption without load	max. 35mA		
Housing material	ABS heat resistant		
Physical size (H x W x L)	31,5 x 10 x 60mm		
Connection method	4 core cable 2 m or connector (J)		
Operating voltage	12 – 24VDC (\pm 10%)		
Usable ambient temp.	-10°C to +50°C		
Weight	approx. 60g		