

F2R series

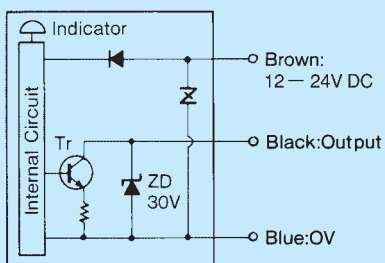
FIBER OPTIC SENSORS

- Amazingly slim
(External dimensions 8mm X 10mm, length 73 mm)
- The amplifier can be used as if it were a cable
- 2 output types: NPN or PNP
- Fast response time (500 μ s max.)

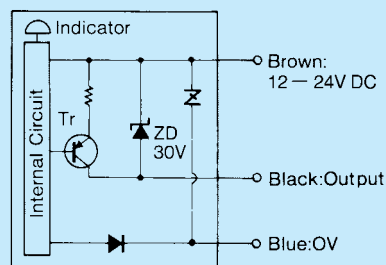


OUTPUT CIRCUIT

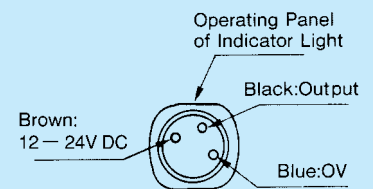
NPN OUTPUT TYPE



PNP OUTPUT TYPE



PIN ARRANGEMENT



SPECIFICATIONS

Models	NPN OUTPUT TYPE		PNP OUTPUT TYPE	
	F2R	F2R-J	F2RPN	F2RPN-J
Detection	Throughbeam of Reflection type (by fiber unit)			
Range	It depends on Fiber unit.			
Power Supply	12 - 24VDC \pm 10%, Ripple 10%(Max.)			
Current Consumption	25mA(Max.)		30mA(Max.)	
Output Mode	NPN open collector		PNP open collector	
Rating	Sink current : 100mA(DC 30V)Max.		Source current : 100mA(DC 30V)Max.	
Operating mode	LIGHT-ON/DARK-ON Selectable L : LIGHT-ON D : DARK-ON			
Response time	500 μ sec(Max.)			
Hysteresis	10%(Max.)			
Light source	Red LED, Wavelength : 660nm			
LED indicator	OPL : Operation(Red), STB : Stable(Green)			
Sensitivity adjustment	SENS : Built-in Potentiometer			
Short circuit protection	Built-in			
Connection	Flying-lead	Connector	Flying-lead	Connector
Cable	3.5, 2m	3P, 2.5m(option)	3.5, 2m	3P, 2.5m(option)
	0.2sq \times 3 Wire			
Weigh(Max.)	40g	65g	40g	65g
Accessories	1pc. Screwdriver for adjustment 1pc. Bracket for DIN rail(35mm width)			

Need to order receptacle connector # F2-C3

ENVIRONMENT

Ambient light	Withstands 3,000 lx
Operating temp.	- 25 ~ + 55 (avoid any condensation)
Humidity	Withstands 85%RH
Case protection	IP65(Jet-proof)
Vibration	10Hz ~ 55Hz 1.5mm Amplitude, 2HR, 3 Directions

DIMENSIONS

