RS PRO Fibre Optic Sensors

RS Stock No.: 2040681, 2040682

FEATURES

- **Leading dual monitor mode;**

- **Build-in high-speed digital processing chip;**

- **Automatic and manual correction and calibration optional;**

- **High precision detection and easy wiring system.**

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Fibre Optic Sensors

Part Number

Part number	Output
FD2-NB11R	NPN NO/NC
FD2-PB11R	PNP NO/NC

General Specifications

Detection Range and accuracy	Depends on fibre optic head
Number of Output	3
Light Source	660nm red visible light
Switching Mode	NO / NC
Response Time	＜200us (Fine mode); ＜300us (Turbo mode); ＜550us (Super)
Output time delay	0ms/10ms/40ms optional
Terminal Type	2m PVC cable
Output Indicators	4 LED digital display, LED bar display, action display
Ambient light	Incandescent lamp 3000lux, sunlight 10000lux
Mounting Type	Cable
Housing material	PC+ABS

Electrical Specifications

Operating Supply Voltage	12...24 VDC
Current Consumption	＜60mA
Electrical Connection	Cable
Load Current	＜100mA
Circuit Protection	Yes (Surge protection, reverse polarity and overload protection)
Insulation Resistance	50MΩ min. (at 500 VDC)
Dielectric Strength	1,000V ac at 50/60 Hz for 1 min

Operation Environment Specifications

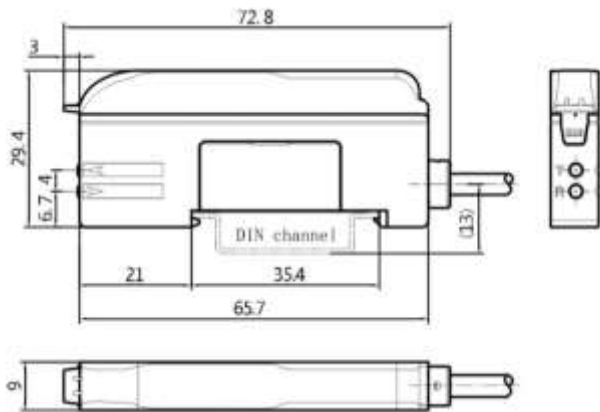| Relative Air Humidity	35~85%RH (with no condensation)
Operating Temperature Range	-10°C to 50°C (no freezing)
Vibration Resistance	10 to 55 Hz with a 0.5mm double amplitude for 2 hours each in X, Y, and Z directions
Shock Resistance	500 m/s2 for 3 times each in X, Y, and Z directions

Fibre Optic Sensors

Protection Category

IP Rating	IP54

Approvals

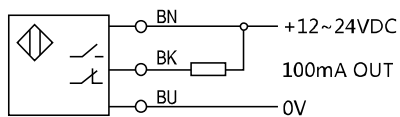| Compliance/Certifications	CE
Declarations	ROHS/REACH

Dimension and Wiring

FD2-NB11R

FD2-PB11R