Q31 Rectangular Photoelectric Sensor

BFTP-R31-I500-I1500-R500-R1500-PC2-1-Y series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 5m / 15m	OPERATING VOLTAGE 10...30V DC
SWITCHING FREQ. 500Hz	AMBIENT TEMP. -25...55°C
HOUSING 31*20*11mm	RESPONSE TIME ≤2ms

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

MODEL CODES

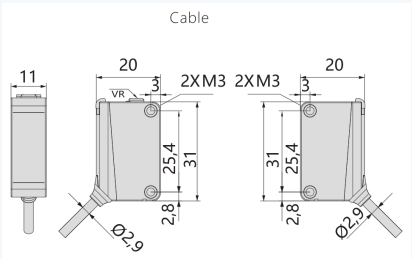
Output Type	①	②	③	④
Emitter	BFTP-R31-E1R500-PC2-1 SKU 10104910	BFTP-R31-E1R1500-PC2-1 SKU 10104913	BFTP-R31-E1I500-PC2-Y SKU 10104916	BFTP-R31-E1I1500-PC2-Y SKU 10104919
NPN N.O+N.C	BFTP-R31-N31R500-PC2-1 SKU 10104911	BFTP-R31-N31R1500-PC2-1 SKU 10104914	BFTP-R31-N31I500-PC2-Y SKU 10104917	BFTP-R31-N31I1500-PC2-Y SKU 10104920
PNP N.O+N.C	BFTP-R31-P31R500-PC2-1 SKU 10104912	BFTP-R31-P31R1500-PC2-1 SKU 10104915	BFTP-R31-P31I500-PC2-Y SKU 10104918	BFTP-R31-P31I1500-PC2-Y SKU 10104921

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 5m ②: 15m ③: 5m ④: 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	①: Red light 650nm ②: Red light 650nm ③: Infrared light 850nm ④: Infrared light 850nm
Response time	≤2ms
Load current	100mA

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable, 4*0.15mm²/2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.