Q31 Rectangular Photoelectric Sensor

BFRP-R31-I200-I400-R200-R400-S84-1-Y series · Sensing Distance: 2m / 4m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SENSING DISTANCE 2m / 4m	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
- Quick response time

MODEL CODES

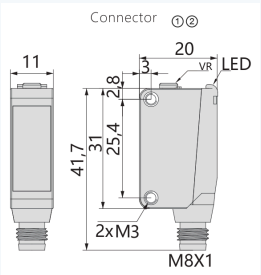
Output Type	①	②	③	④
NPN N.O+N.C	BFRP-R31-N31R200-S84-1 SKU 10105338	BFRP-R31-N31R400-S84-1 SKU 10105340	BFRP-R31-N31I200-S84-Y SKU 10105342	BFRP-R31-N31I400-S84-Y SKU 10105344
PNP N.O+N.C	BFRP-R31-P31R200-S84-1 SKU 10105339	BFRP-R31-P31R400-S84-1 SKU 10105341	BFRP-R31-P31I200-S84-Y SKU 10105343	BFRP-R31-P31I400-S84-Y SKU 10105345

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 2m ②: 4m ③: 2m ④: 4m
Detection type	Retro-reflective
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	M8 Connector
Accessories	M8 4 pin cable with connector/FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.