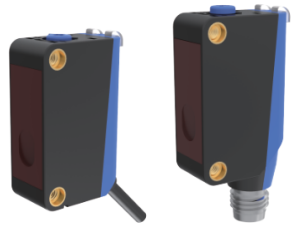
Q31 Rectangular Photoelectric Sensor

BFRP-R31-L200-L400-PC2-S84 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

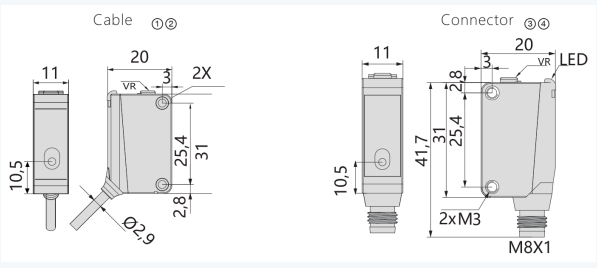
Output Type	①	②	③	④
NPN N.O+N.C	**BFRP-R31-N31L200-PC2** SKU 10105346	**BFRP-R31-N31L400-PC2** SKU 10105256	**BFRP-R31-N31L200-S84** SKU 10105348	**BFRP-R31-N31L400-S84** SKU 10105258
PNP N.O+N.C	**BFRP-R31-P31L200-PC2** SKU 10105347	**BFRP-R31-P31L400-PC2** SKU 10105257	**BFRP-R31-P31L200-S84** SKU 10105349	**BFRP-R31-P31L400-S84** SKU 10105259

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	Laser 650nm
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	①: 2m PVC Cable, 4*0.15mm²/2*0.25mm² ②: 2m PVC Cable, 4*0.15mm²/2*0.25mm² ③: M8 Connector ④: M8 Connector
Accessories	①: FPHL-08 ②: FPHL-08 ③: M8 4 pin cable with connector/FPHL-08 ④: M8 4 pin cable with connector/FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.