Q31 Rectangular Photoelectric Sensor — TOF

BFDP-R31-RLTI100-RLTI200-RLTI400-PC2-R series · Operating Voltage: 10...30V DC · Response Time: 35ms

IP66
Ingress Protection



①② ③④⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30V DC**	RESPONSE TIME **35ms**
AMBIENT TEMP. **-20...60°C**	HOUSING **31*20*11mm**
BLIND ZONE **50mm**	INGRESS PROTECTION **IP66**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

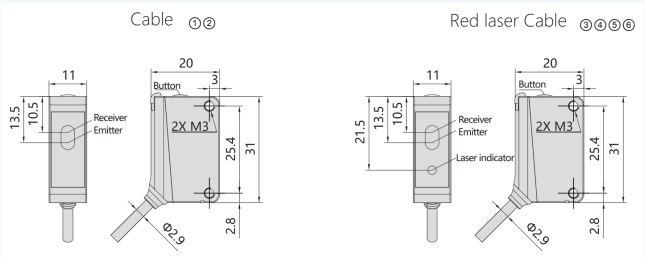
Output Type	①	②	③	④	⑤	⑥
Receiver	**BFDP-R31-RLTI100-PC2** SKU 10105166	**BFDP-R31-RLTI200-PC2** SKU 10105167	**BFDP-R31-RLTI400-PC2** SKU 10105168	**BFDP-R31-RLTI100-PC2-R** SKU 10105169	**BFDP-R31-RLTI200-PC2-R** SKU 10105170	**BFDP-R31-RLTI400-PC2-R** SKU 10105171

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 50...1000mm ②: 50...2000mm ③: 50...4000mm ④: 50...1000mm ⑤: 50...2000mm ⑥: 50...4000mm
Blind zone	50mm
Range setting	Button
Repeatability	Within ±10mm(50-300mm); ≤1%(300mm-4000mm)
Measurement accuracy	Within ±30mm(50-300mm); ≤2%(300mm-4000mm)
Resolution	1mm
Operating voltage	10...30V DC
No-load power consumption	≤0.5VA
Power-on delay	≤3s
Response time	35ms
Light source	Infrared light 940nm
Divergence angle	±2°
Aiming indicator	Infrared

Operation indicator	Yellow LED: target is within the range; Green LED:power source
Light immunity	10 kLux
Overload protection	Yes
Short-circuit protection	Yes
Reverse polarity protection	Yes
Output mode	RS485
Ambient temperature	-20...60°C
Storage temperature	-40...70°C
Ambient humidity	35%-85%(No condensation)
Withstand voltage	1000V/AC 50/60Hz 60s
EMC	IEC60947-5-2
Housing material	ABS
Lens material	PMMA
Ingress protection	IP66
Connection	2m PVC Cable, 4*0.15mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.