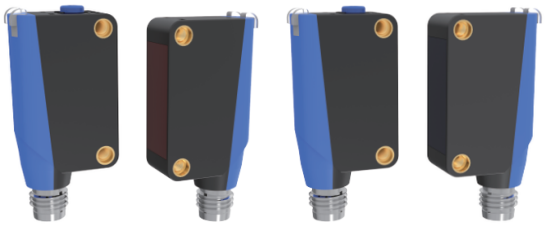
Q31 Rectangular Photoelectric Sensor

BFTP-R31-I500-I1500-R500-R1500-S84-1-Y series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ② ③ ④

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

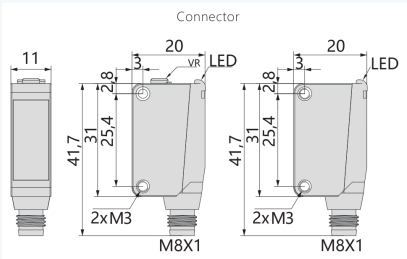
Output Type	①	②	③	④
Emitter	BFTP-R31-E1R500-S84-1 SKU 10104922	BFTP-R31-E1R1500-S84-1 SKU 10104925	BFTP-R31-E1I500-S84-Y SKU 10104928	BFTP-R31-E1I1500-S84-Y SKU 10104931
NPN N.O+N.C	BFTP-R31-N31R500-S84-1 SKU 10104923	BFTP-R31-N31R1500-S84-1 SKU 10104926	BFTP-R31-N31I500-S84-Y SKU 10104929	BFTP-R31-N31I1500-S84-Y SKU 10104932
PNP N.O+N.C	BFTP-R31-P31R500-S84-1 SKU 10104924	BFTP-R31-P31R1500-S84-1 SKU 10104927	BFTP-R31-P31I500-S84-Y SKU 10104930	BFTP-R31-P31I1500-S84-Y SKU 10104933

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	M8 Connector
Accessories	M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.