Q20 Rectangular Photoelectric Sensor

BFTP-R20-R50-Z83_3P-Z83-C_3P series · Sensing Distance: 500mm · Operating Voltage: 10-30VDC+10%

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **500mm**	OPERATING VOLTAGE **10-30VDC+10%**
RESPONSE TIME **1ms (Action/Reset)**	AMBIENT TEMP. **-25~+55°C**
INGRESS PROTECTION **IP66**	

MODEL CODES

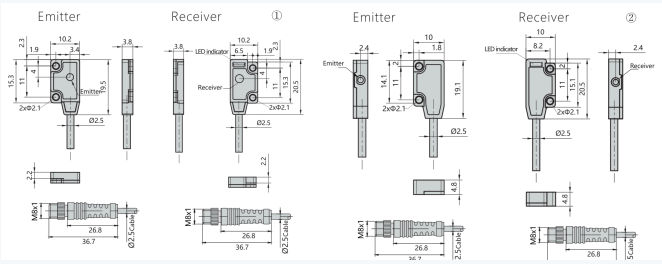
Output Type	①	②
Emitter	**BFTP-R20-E1R50-Z83/3P** SKU 10105312	**BFTP-R20-E1R50-Z83-C/3P** SKU 10105317
NPN N.O	**BFTP-R20-N11R50-Z83/3P** SKU 10105313	**BFTP-R20-N11R50-Z83-C/3P** SKU 10105318
NPN N.C	**BFTP-R20-N21R50-Z83/3P** SKU 10105314	**BFTP-R20-N21R50-Z83-C/3P** SKU 10105319
PNP N.O	**BFTP-R20-P11R50-Z83/3P** SKU 10105315	**BFTP-R20-P11R50-Z83-C/3P** SKU 10105320
PNP N.C	**BFTP-R20-P21R50-Z83/3P** SKU 10105316	**BFTP-R20-P21R50-Z83-C/3P** SKU 10105321

TECHNICAL DATA

Size	①: Emitter: 19.5*10.2*3.8mm Receiver: 20.5*10.2*3.8mm ②: Emitter: 19.1*10*4.8mm Receiver: 20.5*10*4.8mm
Sensing direction	①: Front sensing ②: Side sensing
Sensing distance	500mm
Detecting objects	Φ2mm opaque
Hysteresis	<15% of action distance
Response time	1ms (Action/Reset)
Light source	Red LED
Operating voltage	10-30VDC+10%
Voltage drop	<2VDC
Load current	50mA
Consumption	≤25mA
LED indicator	Output: Yellow; /Power: Green

Switch protection	Reverse protection, short-circuit
Ingress protection	IP66
Light immunity	Incandescent lamp: <3000lx, Sunlight: <10000lx
Ambient temperature	-25~+55°C
Ambient humidity	35-85%RH
Vibration resistance	Frequency 10~500HZ Dual amplitude 3mm(MAX:20G), X, Y, Z two hours in each direction
Shock resistance	Acceleration 500m/s²(50G)X, Y, Z three times in each direction
Connection	Emitter: Gray M8, 0.3m Cable with connector(3 pin); Receiver: Black M8, 0.3m Cable with connector(3 pin)
Housing material	ABS

DIMENSIONAL DRAWINGS



All dimensions in mm.