Q45 Rectangular Photoelectric Sensor — Contrast

BFCM-R45-3150-PC2 series · Sensing Distance: 50-500mm · Housing: 43.5*28*24.5mm

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **50-500mm**	HOUSING **43.5*28*24.5mm**
INGRESS PROTECTION **IP65**	LIGHT SOURCE **White LED**

FEATURES

- Contrast (colour/mark) detection
- LED white light source, wide range of light wave-length, stably detect the difference of colors or appearance
- Long distance detection, up to 500mm
- Background suppression

MODEL CODES

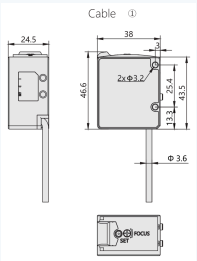
Output Type	Model Code
NPN/PNP	**BFCM-R45-PN3150-PC2** SKU 10105238

TECHNICAL DATA

Size	43.5*28*24.5mm
Sensing distance	50-500mm
Min. light spot diameter	About Φ7mm(at 100mm distance); About Φ10mm(at 250mm distance); About Φ20mm(at 500mm distance)
Response time	200μs/1ms/10ms/100ms/500ms
Light source	White LED
Power supply	12~30V including ripple voltage 10%, Class 2 or LPS
Current consumption	<50mA at 24V,<100mA at 12V
Timer	OFF/ON delay/OFF delay/one shot
Control output	NPN open collector/PNP open collector, switchable; <30V,<100mA, residue voltage <2V; N.O./N.C. switchable
External input	Tuning/stop-transmitting, switchable
Protection circuit	Power polarity reversal protection; Power surge protection; Output over-current protection; Output surge protection

Light immunity	Incandescent light <10000 lux, sunlight<20000lux
Ambient temperature	-25...50°C(no freezing)
Ambient humidity	35...85%RH(no condensation)
Shock resistance	300m/s² 6 times at each of X, Y, Z axis
Vibration resistance	10-55Hz dual amplitude 1.5mm,2hours duration at each of X, Y, Z axis
Ingress protection	IP65
Material	Housing: zinc die casting; LED indicator cover: PC; button: stainless steel
Mutual interference reduction	Set-up different frequency, max 2 pcs sensors

DIMENSIONAL DRAWINGS



All dimensions in mm.