F80RPN

Rating/Performance/Specification

Power supply	12 - 24VDC ±10% / Ripple 10% or less
Power consumption	830 mW or less (32 mA or less at 24 V)
Output mode	PNP open collector output Rating: Source current 100 mA (30 VDC) or less Residual voltage: 2 V or less
Operation mode	Light ON/Dark ON selectable with sliding switch
Timer	Off delay/disabled selectable with sliding switch
Response time (*1)	Delay time: 45 ms fixed
Light source (wavelength)	Red LED (680 nm)
Indicator	Operation indicator: orange LED / Mode indicator: yellow LED / Teaching indicator: green LED
Display	Received light level: 4 digits in orange LED (0 - 8000)
Switch	Output mode selector switch x 1 / Timer selector switch: 1 / Teaching and sensitivity adjustment push + 4-direction button switch x 1
Sensitivity setting	Full auto teaching / Auto teaching
Sensitivity adjustment function	Provided (manual sensitivity adjustment)
Protection circuit	Reverse connection protection / Short circuit protection
Material	Polycarbonate
Wiring	2m attached cable (Outer dimension: dia.3.7mm) 0.2sq. 3 cores
Weight	Approx. 60 g (including 2m cable and mounting bracket)
Accessory	Mounting bracket / Operation manual

(*1) For initial setting and checking, output operation is disabled for about 1.5 seconds after power-up.
The factory setting is long-distance mode.

Environmental Specification

Ambient light	Illumination on light receiving surface: 3,500 lx (incandescent lamp)
Ambient	1-5 adjacent units in operation: -25 - +55 C / Over 6 adjacent units in operation: -25 - +50 C Storage: -40 - +70 C (non-freezing)
Ambient humidity	35 - 85%RH (non-condensing)
Protective structure	IP40
Vibration	10 - 55 Hz / 1.5 mm double amplitude / 2 hours each in 3 directions
Shock	500 m/s^2 / 3 times each in 3 directions
Dielectric withstanding	1000 VAC for 1 minute
Insulation resistance	500 VDC, 20MΩ or more