



Series 23 Rectangular Sensors

- Adjustable, sharp background suppression
- Sensing range display on housing
- Optional four-mode timer



Diffuse Mode with Background Suppression

See pages 540-542

Features:

- Other quick disconnect versions available
- Cross-talk immune versions available

Sensing Range: 500 mm, 1 m, 2 m

Outputs: NPN, PNP, relay



Diffuse Mode with Background Suppression

Specifications		50 mm-2 m	50 mm-2 m	50 mm-2 m
SENSING RANGE		50 mm-2 m	50 mm-2 m	50 mm-2 m
SENSITIVITY ADJUSTMENT		Yes	Yes	Yes
MODEL NUMBER(S)		RL23-8-H-2000-IR/47/92 ●	—	—
		RL23-8-H-2000-IR/49/92 ⚡	—	—
		—	RL23-8-H-2000-IR/116/125 ●	—
		—	—	RLK23-8-H-2000-IR/31/104/116 ⚡
OUTPUT	/47	2 PNP	—	—
	/49	1 NPN and 1 PNP	—	—
	/128	—	2 PNP and 1 NPN	—
	/31	—	—	1 SPDT relay
LOAD CURRENT		200 mA max.	200 mA max.	—
ELECTRICAL CONTACT RATING		—	—	30 VDC/2 A 250 VAC/2 A
VOLTAGE DROP		≤ 2.0 VDC	≤ 2.0 VDC	—
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes	Yes	No
REVERSE POLARITY PROTECTION		Yes	Yes	No
SUPPLY VOLTAGE		10-30 VDC	10-30 VDC	12-240 VAC/10-30 VDC
VOLTAGE RIPPLE		10%	10%	—
CURRENT CONSUMPTION		≤ 100 mA	≤ 100 mA	—
POWER CONSUMPTION		—	—	3 VA
RESPONSE TIME		≤ 5.0 ms	≤ 5.0 ms	≤ 50.0 ms
TIMER FUNCTION		On Delay, Off Delay, One Shot (0.1 to 10 sec.)	On Delay, Off Delay, One Shot (0.1 to 10 sec.)	On Delay, Off Delay, One Shot (0.1 to 10 sec.)
SWITCHING FREQUENCY		70 Hz	70 Hz	10 Hz
LIGHT SPOT DIAMETER		50 mm at a range of 2 m	50 mm at a range of 2 m	50 mm at a range of 2 m
LIGHT SOURCE		Infrared LED	Infrared LED	Infrared LED
AMBIENT LIGHT RESISTANCE		≤ 5,000 lux	≤ 5,000 lux	≤ 5,000 lux
ELECTRICAL CONNECTION		Quick disconnect type V1	Terminal housing	Terminal housing
ADDITIONAL DATA	See pages 543-546			

- ⚡ Stocked item
 - Typical delivery 4 weeks or less
- Consult factory for all other models

Sensing Characteristics

