



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			
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	—	—
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

