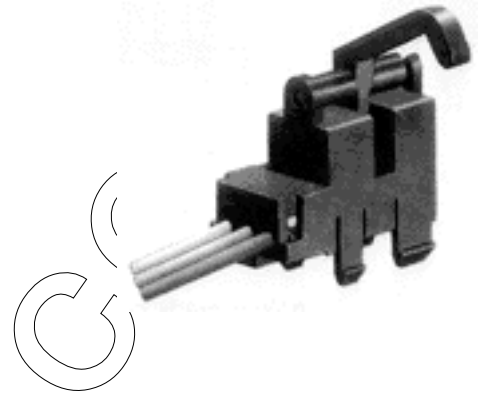


OS-5002

Actuator Type Opto Sensor



- Photo transistor output
- Selectable supply voltage with RF and RL resistor value (5V, 12V, 24VDC)
- Top side actuator
- Snap action mount
- Low actuating force (0.4g)
- Selectable mounting plate thickness (1.6mm, 2.0mm)

MAXIMUM RATINGS (Ta=25°C)

<i>Item</i>		<i>Symbol</i>	<i>Value</i>
Input	Forward Current	IF	50mA
	Reverse Voltage	VR	5V
Output	C-E Voltage	VCEO	30V
	E-C Voltage	VECO	5V
	Collector Current	IC	50mA
	Collector Power Dissipation	PC	75mW

ELECTRICAL CHARACTERISTICS (Ta=25°C)

	Item	Symbol	Conditions	Min	Typ	Max	Unit
Input	Forward Voltage	VF	IF=10mA	1.0	1.15	1.3	V
	Reverse Current	IR	VR=5V	-	-	10	μA
Output	Dark Current	ID	VCE=24V IF=0	-	5	100	nA
	Collector Current *1	IC	IF=20mA VCE=5V	2.0	5.0	-	mA
	Collector Leak Current *2	ICP	IF=20mA VCE=5V	-	-	50	μA
	C-E Saturation Voltage	VCE (Sat)	IF=20mA IC=1mA	-	0.15	0.4	V
*1 with actuator operated *2 with actuator released							

MECHANICAL CHARACTERISTICS

Item	Limits
Operating Force	0.4g Max
Resistance to Vibration	10~55Hz, 1.5mm
Resistance to Shock	30G
Mechanical Life	10 ⁶
Operating Temp.	-20° ~ +75°C
Storage Temp.	-25° ~ +90°C
Mounting Plate Thickness	1.6 ± 0.05mm, 2 ± 0.05mm

RECOMMENDED RF and RL VALUE

VCC	5V	12V	24V
RF	200~470 ohms 1/4W	680~1.2K ohms 1/4W	1.2K~2.4K ohms 1/2W
RL	20K~47K ohms	20K~47K ohms	20K~47K ohms

Schematic/Typical Circuit



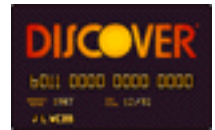
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