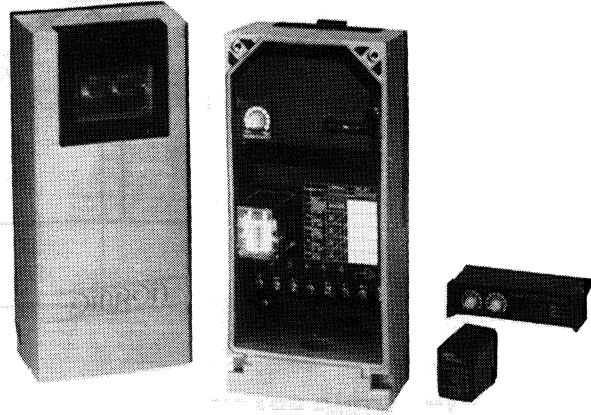


## Long-Range AC/DC Photoelectric Sensor

## E3K

Heavy-Duty Reflective Sensors Offer Long Sensing Distance

- Universal AC/DC supply voltage
- DPDT 10 A relay output standard
- Easy-to-wire terminal strip
- Plug-in replaceable outputs
- Light-ON/Dark-ON operation, switch selectable
- Mutual interference protection
- Timer modules available



## Ordering Information

### ■ SENSOR

Method of detection	Retroreflective	Diffuse reflective
Sensing distance	10 m (32.8 ft)	2 m (6.56 ft)
Part number	E3K-R10K4	E3K-D2K4

### ■ ACCESSORIES

Description	Part number	
Timer modules	Selectable ON-delay, OFF-delay or one-shot delay; 0.05 to 2 seconds or 0.5 to 20 seconds	E39-T1
	Dual ON- and OFF-delays; 0.05 to 2 seconds or 0.5 to 20 seconds	E39-T2
	Delayed one-shot; 0.05 to 2 seconds or 0.5 to 20 seconds	E39-T3
Reflector adapter for stud-mounting E39-R1 reflector	E39-L7	

### ■ REPLACEMENT PARTS

Description	Part number
Relay output module, DPDT, 10 A at 240 VAC max. load (supplied with each sensor)	LY2-DC12
Reflector (supplied with each sensor)	E39-R1
Mounting bracket (supplied with each sensor)	E39-L37

# Specifications

Part number		E3K-R10K4	E3K-D2K4
Method of detection		Retroreflective	Diffuse reflective
Supply voltage		42 to 240 VAC, 50/60 Hz; 24 to 240 VDC	
Power consumption		10 VA max.	
Sensing distance		10 m (32.8 ft) with E39-R1 reflector included 12.2 m (40 ft) with 3 inch dia. reflector	2 m (6.56 ft) with 30 x 30 cm (11.8 x 11.8 in) 90% reflectance white mat paper
Light source		Pulse modulated infrared LED (950 nm)	
Detectable object type		Opaque materials	Opaque and translucent materials
Operation mode		Light-ON/Dark-ON, switch selectable	
Sensitivity		Adjustable potentiometer	
Mutual interference protection		Provided	
Control output	Relay	Type	DPDT
		Max. load	10 A, 240 VAC
		Min. load	1 mA, 5 VDC
Response time	On	Relay output	30 ms max.
	Off	Relay output	30 ms max.
Timing functions		See "Accessories" in Ordering Information	
Circuit protection	Output short-circuit	Not provided	
	DC power supply reverse polarity	Yes	
Indicators		Light Incident (red LED), Output Stability (green LED), Output Operation (yellow LED)	
Materials	Lens	Plastic	
	Case	Plastic	
Mounting		Bottom surface with three threaded metal inserts; Bracket (E39-L37) and hardware included	
Connections	Conduit	3/4-14 NPT	
	Wire	Plated steel screw terminals	
Weight		Without timer module: approx. 650 g (22.9 oz.) With timer module: approx. 690 g (24.3 oz.)	
Enclosure ratings	NEMA	1, 4, 4X, 12 and 13	
	IEC 144	IP67	
Approvals	UL	Listed, File number E41515	
	CSA	Certified, File Number LR 45951	
Ambient temperature	Operating	-25° to 55°C (-13° to 131°F)	
	Storage	-30° to 70°C (-22° to 158°F)	