

Compact Limit Switch Style with Universal Power Supply

- FET output allows for solid state switching of AC or DC
- Universal AC/DC power supply
- Choose cable or connector types
- Sensitivity adjustment standard on all models
- Wide selection of timing options
- UL/CE/CSA certified
- NEMA 4X, IP67 rated



Ordering Information

■ SENSORS

Method of detection			Through-beam	Polarized retroreflective	Diffuse reflective	
Sensing distance			25 m (82 ft)	5 m (16.4 ft)	1 m (3.3 ft)	2 m (6.6 ft)
Output	Connection	Timer	Part number			
Relay	300-V cable	No	E3JU-25M4-3	E3JU-R5M4-3	E3JU-D1M4-3	E3JU-D2M4-3
	600-V cable		E3JU-25M4-6	E3JU-R5M4-6	E3JU-D1M4-6	E3JU-D2M4-6
	300-V cable	Yes	E3JU-25M4T-3	E3JU-R5M4T-3	E3JU-D1M4T-3	E3JU-D2M4T-3
	600-V cable		E3JU-25M4T-6	E3JU-R5M4T-6	E3JU-D1M4T-6	E3JU-D2M4T-6
FET	300-V cable	No	E3JU-25P4-3	E3JU-R5P4-3	E3JU-D1P4-3	E3JU-D2P4-3
	600-V cable		E3JU-25P4-6	E3JU-R5P4-6	E3JU-D1P4-6	E3JU-D2P4-6
	300-V cable	Yes	E3JU-25P4T-3	E3JU-R5P4T-3	E3JU-D1P4T-3	E3JU-D2P4T-3
	600-V cable		E3JU-25P4T-6	E3JU-R5P4T-6	E3JU-D1P4T-6	E3JU-D2P4T-6
Relay	MiniChange® Connector	No	E3JU-25M4-MN1	E3JU-R5M4-MN1	E3JU-D1M4-MN1	E3JU-D2M4-MN1
		Yes	E3JU-25M4T-MN1	E3JU-R5M4T-MN1	E3JU-D1M4T-MN1	E3JU-D2M4T-MN1
FET	MiniChange® Connector	No	E3JU-25P4-MN1	E3JU-R5P4-MN1	E3JU-D1P4-MN1	E3JU-D2P4-MN1
		Yes	E3JU-25P4T-MN1	E3JU-R5P4T-MN1	E3JU-D1P4T-MN1	E3JU-D2P4T-MN1

■ ACCESSORIES (ORDER SEPARATELY, NOT INCLUDED WITH SENSOR)

Description	Part number
Mounting bracket	E39-LU1
Mounting bracket for E39-R1 reflector	E39-L7
Large corner cube reflector	81 x 60 x 7 mm (3.19 x 2.36 x 0.28 inch) E39-R2
Small corner cube reflectors	38 x 22 x 11 mm (1.50 x 0.87 x 0.43 inch) E39-R3
	23 x 14 x 5 mm (0.91 x 0.55 x 0.19 inch) E39-R4
Adhesive backed reflectors	35 x 10 x 0.7 mm (1.38 x 0.39 x 0.03 inch) E39-RSA
	40 x 35 x 0.7 mm (1.57 x 1.38 x 0.03 inch) E39-RSB

REPLACEMENT PARTS

Description	Part number
Reflector (supplied with retroreflective sensors)	E39-R1

Specifications

Part number	E3JU-25□4□-□	E3JU-R5□4□-□	E3JU-D1□4□-□	E3JU-D2□4□-□	
Method of detection	Through-beam type	Polarized retroreflective	Diffuse reflective		
Supply voltage	24 to 240 VAC ±10%, 50/60 Hz 12 to 240 VDC, 10% max. peak-to-peak ripple				
Power consumption	Emitter: 2 W max. Receiver: 3.5 W max.	3.5 W max.	4 W max.		
Sensing distance	25 m (82 ft)	5 m (16.4 ft) with E39-R1 reflector (supplied) 5.5 m (18.0 ft) with E39-R2 3.3 m (10.8 ft) with E39-R3 1.5 m (4.9 ft) with E39-R4 0.8 m (2.6 ft) with E39-RSB 0.5 m (1.6 ft) with E39-RSA	1 m (3.3 ft) Kodak gray card white side 90% reflective	2 m (6.6 ft) Kodak gray card white side 90% reflective	
Light source	Infrared LED (950 nm)	Polarized red LED (660 nm)	Infrared LED (950 nm)		
Detectable object type	Opaque, 16 mm (0.63 in) minimum	Opaque, 56 mm (2.2 in) minimum with E39-R1	Opaque and translucent materials		
Operation mode	Light-ON/Dark-ON, switch selectable				
Sensitivity adjustment	Adjustable				
Mutual interference protection	Not provided	Provided			
Control output	Contact	Type	SPDT relay		
		Max. load	3 A, 250 VAC; 30 VDC rated (p.f.=1)		
		Min. load	10 mA, 5 VDC minimum		
		Response time	Models without timer and timer models set to No Timer: 12 ms ON (6 ms typ.), 12 ms OFF (5 ms typ.) Models with timer: 0.1 to 10 sec (adjustable)		
	Solid state	Type	Power MOSFET relay		
		Response time	Models without timer and timer models set to No Timer: 8 ms ON, 12 ms OFF max. Models with timer: 0.1 to 10 sec (adjustable)		
Timer functions	Type	ON-delay, OFF-delay, ON/OFF delay, one-shot, delayed one-shot; switch selectable			
	Range	0.1 to 10 seconds			
Circuit protection	Not provided				
Indicators	Light incident (red LED); output operation (yellow LED); stability (green LED)				
Materials	Lens	Plastic: PMMA			
	Case	Plastic: Case-ABS/Polycarbonate blend, Cover-Polycarbonate			
Mounting	Two M5 front-mounting through holes. M30 externally threaded base and 1/2-14 NPSM internal threads for cable type: conduit torque not to exceed 100 inch-lbs.				
Connections	Prewired	(-6) 600 V rated, AWG 20: 2-wire, 4-wire cables; AWG 21: 5-wire cables; (-3) 300 V rated; AWG 22: 4-wire, 5-wire cables			
	Connector	MiniChange® style connector: 2, 4, and 5 pins			

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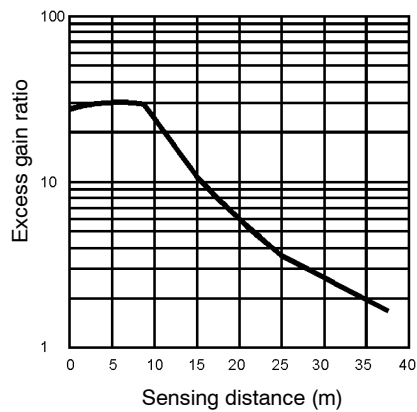
Specifications Table - continued from previous page

Part number		E3JU-25□4□-□	E3JU-R5□4□-□	E3JU-D1□4□-□	E3JU-D2□4□-□
Method of detection		Through-beam type	Polarized retroreflective	Diffuse reflective	
Weight	Prewired	Emitter: (-6): 260 g (9.1 oz); (-3): 180 g (6.3 oz)	(-6): 300 g (10.5 oz); (-3): 220 g (7.7 oz)		(-6): 315 g (11.03 oz); (-3): 235 g (8.23 oz)
		Receiver (-6): 300 g (10.5 oz); (-3): 220 g (7.7 oz)			
	Connector	Emitter: 115 g (4.03 oz) Receiver: 130 g (4.55 oz)	(-MN1): 130 g (4.55 oz)		(-MN1): 145 g (5.08 oz)
Enclosure ratings	NEMA	NEMA 1, 2, 3, 4X, 5, 12			
	IEC 144	IP67			
Approvals	UL	Listing E41515			
	CSA	Certification LR45951			
	CE	IEC947-5-2			
Ambient temperature	Operating	-25°C to 55°C (-13°F to 131°F)			
	Storage	-40°C to 70°C (-40°F to 158°F)			

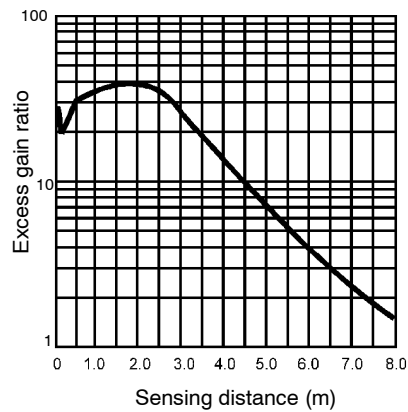
Engineering Data

■ EXCESS GAIN

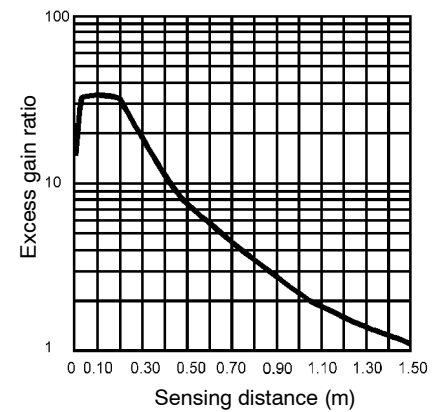
E3JU-25□4□-□



E3JU-R5□4□-□



E3JU-D1□4□-□



E3JU-D2□4□-□

