imall

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AC/DC Fiber-Optic with Relay Output

E3A2-X

Slim Amplifier with Plug-in Outputs, Built-in Time Delays

- Universal supply voltage for AC/DC operation
- Plug-in replaceable outputs, relay or solid state
- Light-ON/Dark-ON operation, switch selectable
- Uses E32-series fiber-optic cables - over 150 models available
- Standard 3 A relay output



Ordering Information_

AMPLIFIERS

Part number	E3A2-XCM4	E3A2-XCM4T	E3A2-XCM4D
Built-in timer	Not provided	Provided	
Timer functions	—	ON-delay, OFF-delay, one-shot, or equal ON-delay and OFF-delay (0.1 to 5 seconds)	Independently adjustable ON-delay and OFF-delay (0.1 to 5 seconds)

■ ACCESSORIES (ORDERED SEPARATELY)

Description	Part number	
Solid-state output	AC (SCR output module; 200 mA, 250 VAC max. load	G3K-2R2P-1
	DC NPN-SPDT output module; 200 mA, 30 VDC max. load	G3KD-YR2P-1
modules	DC PNP-SPDT output module; 30 VDC max. load	G3KD-YR2P-2
Optional mounting chu	E39-FU1-1	

REPLACEMENT PARTS

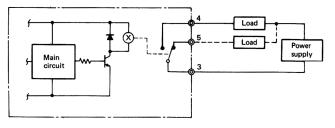
Description	Part number
Relay, output module, SPDT, 3 A at 250 VAC (output supplied with each sensor)	G6C-2117P-DC8
Mounting bracket (supplied with each sensor)	E39-L34
Mounting chuck for standard fiber-optic cables (included with sensor)	E39-FU1

Specifications_____

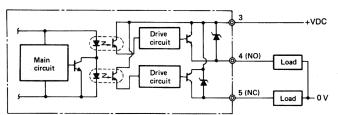
Part Number			E3A2-XCM4	E3A2-XCM4T	E3A2-XCM4D	
Supply voltage			24 to 240 VAC, 50/60 Hz; 12	to 240 VDC		
Power consumption Relay output type and DC solid-state output type AC solid-state		DC solid-state	1.5 W max.			
		AC solid-state output type	2 VA max.			
Required fiber-optic cables		cables	E32-series fiber-optic cables; armored cables require optional mounting chuck (see Accessories)			
Light source			Pulse modulated red LED			
Operating mode			Light-ON/Dark-ON, switch selectable			
Sensitivity			Adjustable			
Mutual interference protection		protection	Provided			
Control output	Relay	Туре	SPDT with G6C-2117P-DC8 output module (standard)			
		Max. load	3 A, 250 VAC (p.f. = 1); 3 A, 30 VDC			
	AC	Туре	SCR with G3K-2R2P-1 output module (optional)			
	solid- state	Max. load	200 mA, 250 VAC			
	Sidic	Min. load	5 mA			
		Max. inrush	2 A			
		OFF-state leakage current	1 mA max.			
	DC solid- state	Туре	NPN-SPDT with G3KD-YR2P-1 output module (optional) PNP-SPDT with G3KD-YR2P-2 output module (optional)			
		Max. load	200 mA, 30 VDC			
		Max. on-stage voltage drop	2 VDC at 200 mA			
Response		Relay	15 ms max. with G6C-2117P-DC8 output module (standard)			
time (ON a OFF)	and	AC solid-state output	30 ms max. with G3K-2R2P-1 output module (optional)			
		DC solid-state output	1 ms max. with G3KD-YR2P-1 or -2 output modules (optional)			
Timing functions		Туре	_	ON-delay, OFF-delay one-shot, equal ON- and OFF-delays, or no timer; switch selectable	Independent ON-delay and OFF-delay	
		Range	_	0.1 to 5 seconds	0.1 to 5 seconds	
Circuit p	rotection	Output short-circuit	Provided with AC solid-state and DC solid-state output modules only			
DC power supply reverse		· · ·	Provided			
Indicators	5	· · ·	Light incident (red LED), Output Stability (green LED)	Light incident (red LED), Output Operation (yellow LED		
Materials		Lens	Plastic			
		Case	Plastic			
Mounting			Side surface mount with two through holes; Bracket E39-L34 and hardware included			
Connecti		Conduit	1/2-14 NPT			
20111000010		Wire	Terminal screws			
Weight			200 g (7.1 oz.)			
Enclosure ratings		UL	1			
		NEMA	1, 4, 4X, 12			
		IEC 144	IP66			
Approvals		UL	Listed, File Number E41515			
		CSA	_			
Ambient temperature		Operating	-25° to 55°C (-13° to 131°F)			
		Storage	-30° to 70°C (-22° to 158°F)			

OUTPUT CIRCUIT DIAGRAMS

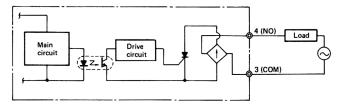
Relay output



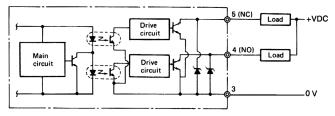
DC solid-state PNP output



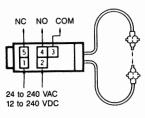
AC solid-state output



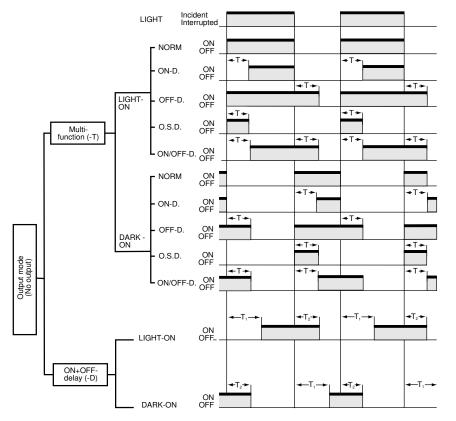
DC solid-state NPN output



CONNECTIONS



TIMING CHARTS

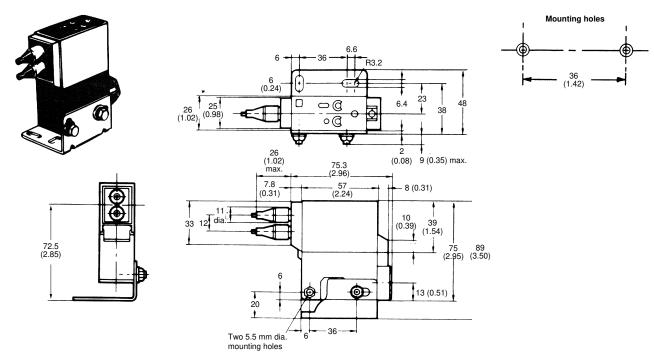


- Note: 1. For E3A2-XCM4 amplifier without built-in timer functions, operation follows the NORM mode shown with multi-function time delay model.
 - 2. T_1 , T_2 and T denote set time, variable within 0.1 to 5 second range.
 - For multi-function time delay model (E3A2-XCM4T), the ONand OFF-delay time settings will be the same for T₁ and T₂.
 - 4. For ON- and OFF-delay model (E3A2-XCM4D), T_1 and T_2 are independently variable.

Dimensions

Unit: mm (inch)

AMPLIFIERS



■ FIBER-OPTIC CABLES

Refer to E32 data sheet for dimensions of plastic fiber-optic cables and accessories.



1-800-55-OMRON

Cat. No. CEDSAX4

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