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INSTALLATION SHEET 133-645 Module 61-5745-3

Implementing parallel / redundant self-checking UV scanners

The purpose of Fireeye accessory module 61-5745-3 is to provide synchronous shutter drive for two UV self-checking scanners. This will allow redundant flame scanning in a single combustion chamber where Flame-Monitor, MicroM or D-Series controls are used. Module 61-5745-3 is provided with standoffs to facilitate mounting onto a cabinet back plate. Module 61-5745-3 operates from 102–250 VAC 50/60 Hz, making it suitable to solve many applications.

Depending on the type of system used, select components from the table below:

	System #1 (Flame-Monitor)	System #2 (MicroM)	System #3 (D-Series)
Qty.	Part Numbers	Part Numbers	Part Numbers
1	E110 Chassis ¹	MEC120 Chassis	70D40 Chassis ²
1	EP Programmer	MEP Programmer	
1	EUVS4 Amplifier	MEUVS4 Amplifier	72DUVS4 Amplifier
1	60-1466-2 ³	61-5042 ⁴	60-1466-2
1	61-5745-3	61-5745-3	61-5745-3
2	45UV5-1005 Scanner ⁵	45UV5-1005 Scanner ⁵	45UV5-1005 Scanner ⁵
1	ED510 Display	ED510 Display (optional) ⁶	

1. Substitute E120 Chassis for 220 VAC operation (FM Approval only).
2. Substitute 70D41 for 220 VAC operation.
3. Substitute 60-1386-2 if surface mounted wiring base required.
4. Substitute 61-3060 if surface mounted wiring base required.
5. Substitute 45UV5-1105 if BSP mounting threads required. Refer to bulletin SC-101 for scanner details.
6. Use MEC120D and 129-145-1 if remote display is required.

Operation:

In each of these systems, if either scanner sees flame, the burner will remain firing. If either scanner fails the self-check test, the system will shut down and annunciate a scanner failure.

Mount the shutter drive to a panel using 4 #8-32 X ¾” screws.

Connect the four wires as follows:

- Black Wire: L1 Power, 102-250 VAC, 50/60 Hz
- White Wire: L2 Neutral
- Red Wire: The first black wire from each 45UV5-1005 scanner.
- Green Wire: The second black wire from each 45UV5-1005 scanner.

Connect the first red wire from each scanner to terminal S1 and connect the second red wire from each scanner to terminal S2. Polarity is not important.

Connection & dimensional for module 61-5745-3

