

Mode 5 & 6 Damper Connections to EMS & EMB Damper Control Panels

Dampers

- Wire the first damper actuator supply as shown below and repeat for subsequent dampers.
- Wire the first damper actuator end position switch wiring as shown below and repeat for subsequent dampers.
- It is recommended that the damper end position cables are not run alongside any high voltage or high frequency sources as this could render the panel indication unreliable.

Please note:

2 core and 3 core site wiring (by others).
Typically, 1mm² - 2.5mm² solid core wiring.

Actionpac EMS 15-24 and Actionpac EMS 30-24: be aware of voltage drop when using 24V (Mode 5) actuators.

A blank damper location form is provided inside the panel and is located on the left hand side

Please note:

All panel terminals (except mains supply) accept max 2.5mm² wiring

Damper actuator supply wiring

DAMPER	TERMINALS
DAMPER 1	L1, N1
DAMPER 2	L2, N2
ETC.	

EMS 15: L1 N1 - L15 N15

EMS 30: L1 N1 - L15 N15 (Zone 1)
L16 N16 - L30 N30 (Zone 2, if required*)

Damper actuator end position switch wiring

Actuator End position switches:

	S4+S1* (common)	S2 (closed indication)	S6 (open indication)
Panel Screw Terminals:			
Damper 1 Terminals:	1	2	3
Damper 15 Terminals:	43	44	45
Damper 16 Terminals:	1	2	3
Damper 30 Terminals:	43	44	45

EMS 15: Terminals 1-45 identified ACT 1-15

EMS 30: Terminals 1-45 & 1-45 identified ACT 1-15 & ACT 16-30

* Connection made at junction box (by others)
or Actionair DCB (optional)

