

EP57 and EP58 Series Controls for Single and Dual Pressure Controls Product Bulletin

The EP57 and EP58 Series Pressure Controls are designed primarily for high and low pressure cut-out control, pump-down control, condenser fan cycling, and capacity control on commercial refrigeration and air-conditioning applications. These controls are available in several pressure ranges and are compatible with most common refrigerants. They may also be used on other non-corrosive fluid applications. Controls also are available in single-pole double-throw (SPDT) switch configuration.

The EP57 Series Controls for high or low pressure applications are designed for single pressure control of commercial refrigeration and air-conditioning applications.

The EP58 Series Controls for dual pressure applications are designed primarily for use as combination high and low pressure controls on commercial refrigeration and air-conditioning applications.



Figure 1: EP57 Single Pressure Control



Figure 2: EP58 Dual Pressure Control

FEATURES

Generous wiring space

- Easy wiring and maintenance

SPDT contacts are provided as standard on single pressure controls

- Can be wired for alarm functions

Sight-set calibrated pressure adjustment

- Displays a visible pressure scale and fully adjustable through the range

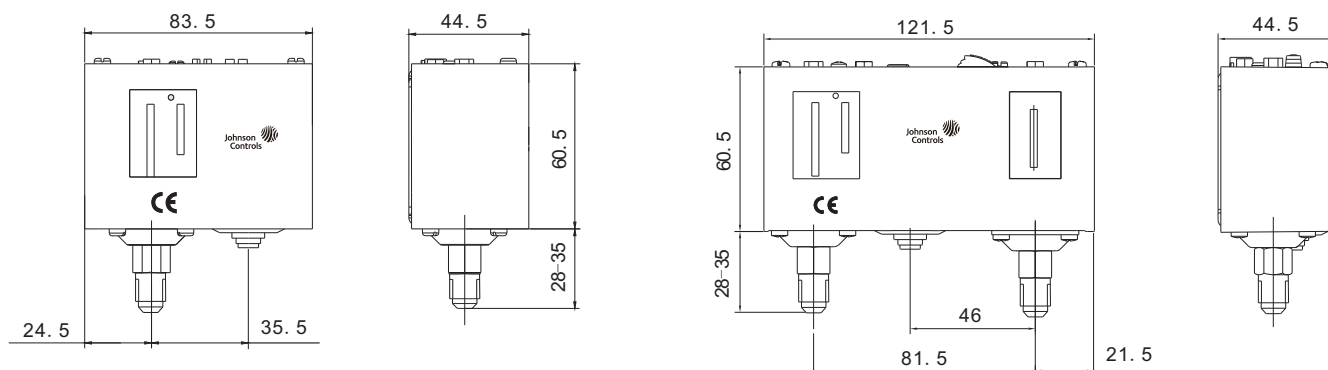
IMPORTANT: The controls are intended to control equipment under normal operating conditions. Where failure or malfunctioning of the controls could lead to an abnormal operating condition that could cause personal injury or damage to the equipment or other property, other devices (limit or safety controls) or systems (alarm or supervisory systems) intended to warn of or protect against failure or malfunctioning of the controls must be incorporated into and maintained as part of the control system.

APPLICATION

These pressure controls are designed for use in a variety of applications involving refrigeration high or low pressure. Models supplied have a “whole range” design, enabling them to be used with all non-corrosive refrigerants which are within the operating range of the control. They may also be used for other high or low pressure applications such as air, water etc.

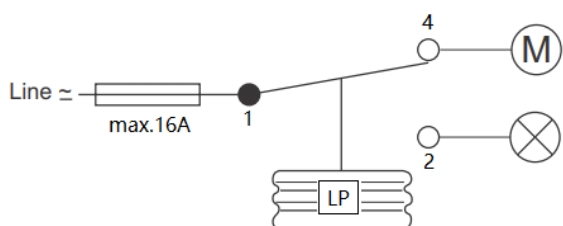
DIMENSIONS (mm)

EP57 and EP58 Pressure Controls with 7/16-20 UNF for 1/4" 6 mm flare fitting dimensions

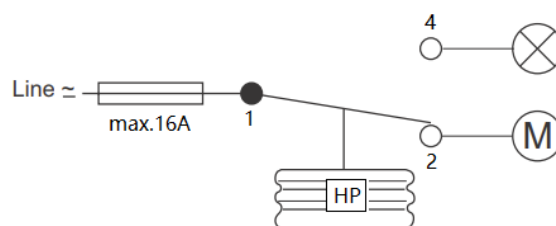


WIRING

EP57 Single Pressure Control wiring (SPDT)

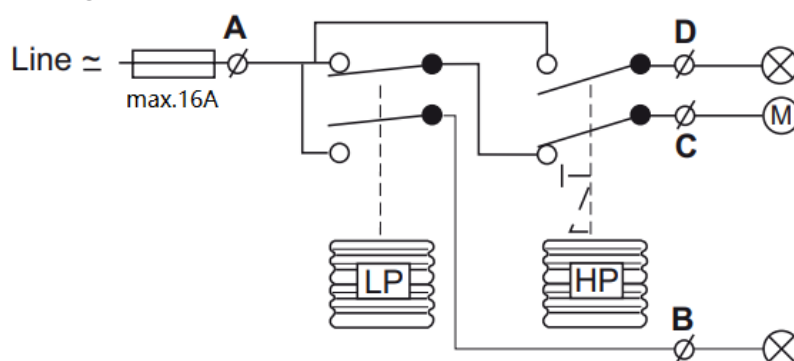


LP, 1 to 2 closes on pressure decrease, 1 to 4 opens simultaneously



HP, 1 to 2 opens on pressure increase, 1 to 4 closes simultaneously

EP58 Dual Pressure Control wiring



LP, A - C opens on pressure decrease, A - B closes simultaneously
HP, A - C opens on pressure increase, A - D closes simultaneously

ORDERING INFORMATION

Models *	Range (bar)	Diff. ΔP (bar)	Rest	Maximum bellows pressure (bar)
EP57AAA-9075C	-0.2 to 7.5	0.7 to 4	LP, Auto	17
EP57AAA-9214C	2 to 14	1 to 4	LP, Auto	17
EP57AAA-9832C	8 to 32	2 to 6	HP, Auto	35
EP57AAA-9842C	8 to 42	4 to 10	HP, Auto	46.5

Models *	Left Side		Right Side		Rest	Maximum bellows pressure (bar)
	Range (bar)	Diff. ΔP (bar)	Range (bar)	Diff. ΔP (bar)		
EP58LCA-9832C	-0.2 to 7.5	0.7 to 4	8 to 32	4 (fixed)	LP, Auto rest HP, Auto rest	LP: 17 HP: 35
EP58MCA9832C	-0.2 to 7.5	0.7 to 4	8 to 32	4 (fixed)	LP, Auto rest HP, Man. rest	

* If your requirements are not in the model number selection table, then please contact your Johnson Controls representative.

TECHNICAL SPECIFICATION

Brand	Johnson Controls
Protection Class	IP20/IP44*
Certificate	CE
Electrical Rating	10(10) A, 240 Vac
Ambient Temp.	-25C~65C
Media Temp.	-40C~120C
Switch action	SPDT
Pressure connector	Male connector 7/16"-20 UNF for 1/4" 6mm flare fitting
Accessories	Mounting bracket, top cover kit, screws
Material	Case: Aluminum-zinc plated Cover: ABS plastic Contact: Silver cadmium alloy Pressure connector: Nickel plated brass Bellows: Tin bronze

* IP44 unit with top cover is mounted on surface or bracket, and all unused holes are covered.

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