

PENN COMMERCIAL REFRIGERATION

PRESSURE CONTROLS

FIXED SETTING PRESSURE SWITCH

P100

DIRECT MOUNT PRESSURE SWITCH

The P100 series are encapsulated, non-adjustable, direct mount pressure controls typically used for low and high-pressure cut-outs for OEM applications.

The P100 series are produced according to switchpoint requirements of customers. The small dimensions, weight and protection class makes the P100 series applicable for use without the need of additional mounting brackets.

The P100 series can be used for all non-corrosive refrigerants like R134a; R32; R404, R410A, R290 (Propane), R600, R1234, R744 (CO2) and many others.



FEATURES

- Compact size and light weight
- Encapsulated, dust tight switch IP67
- Broad variety of electrical and pressure connections
- Manual reset models have a trip-free design
- Models with gold-plated contacts available upon request
- Approved according to PED 2014/68/EU Cat. IV
- ATEX Certified models available

APPLICATION

- Computer room air conditioning
- Refrigeration/Air conditioning condensers
- Commercial refrigeration
- Ice machines
- Food service equipment



P100 FIXED SETTING PRESSURE SWITCH

ORDERING CODES

LOW PRESSURE AUTOMATIC RESET MODELS

More models are available. This is only a selection. For quantity orders customized models can be set up. Tolerances apply. For details and inquiries contact your Johnson Controls representative.

CODES	FUNCTION	SETPOINTS (bar g)		PRESSURE PORT	CABLE (cm)	SWITCH
		Open	Close			
P100AP-315D	Contact opens on pressure drop	0,3	0,7	1/4" SAE Fem. Flare	200	SPST Standard Duty
P100AP-85D			1,4		122	
P100AP-50D			2,2		76	
P100AP-57D		0,5	2,0	6 mm Brazing Tube	200	
P100AP-305D			3,0		300	
P100AP-310D		0,7	2,2	1/4" SAE Fem. Flare	200	
P100AP-322D		1,5	2,5	6 mm Brazing Tube	183	
P100AP-25D			3,0		200	
P100AP-318D		2,0	3,3	1/4" SAE Fem. Flare	46	
P100AP-300D		2,5	4,0		122	
P100AP-302D		4,0	6,0		300	
P100AP-100D		7,0	10,0	6 mm Brazing Tube	200	
P100AP-101D					122	
P100AP-311D		10,3	15,5	1/4" SAE Fem. Flare	200	
P100AP-323D		14,0	19,0		122	

HIGH PRESSURE AUTOMATIC RESET MODELS

More models are available. This is only a selection. For quantity orders customized models can be set up. Tolerances apply. For details and inquiries contact your Johnson Controls representative.

CODES	FUNCTION	SETPOINTS (bar g)		PRESSURE PORT	CABLE (cm)	SWITCH
		Open	Close			
P100CP-102D	Contact opens on pressure rise	16,0	11,0	1/4" SAE Fem. Flare	200	SPST Standard Duty
P100CP-77D		18,0	12,0		122	
P100CP-114D		24,0	18,0	6 mm Brazing Tube	100	
P100CP-104D				1/4" SAE Fem. Flare	200	
P100CP-111D		26,0	20,0	6 mm Brazing Tube	122	
P100CP-112D				1/4" SAE Fem. Flare	200	
P100CP-53D		26,9	19,0	6 mm Brazing Tube	122	
P100CP-73D		27,0			200	
P100CP-107D		28,0	23,0	1/4" SAE Fem. Flare	122	
P100CP-106D					300	
P100CP-108D		38,0	28,0	6 mm Brazing Tube	120	
P100CP-133D		40,7	32,4		122	
P100CP-142D		42,0	35,0	6 mm Brazing Tube	120	
P100CP-170D		140,0	100,0		120	



P100 FIXED SETTING PRESSURE SWITCH

ORDERING CODES

HIGH PRESSURE MANUAL RESET MODELS

More models are available. This is only a selection. For quantity orders customized models can be set up. Tolerances apply. For details and inquiries contact your Johnson Controls representative.

CODES	FUNCTION	SETPOINTS (bar g)		PRESSURE PORT	CABLE (cm)	SWITCH
		Open	Close			
P100DA-11D	Contact opens on pressure rise	20,0	Manual Reset	1/4" SAE Fem. Flare	122	SPST Standard Duty
P100DA-68D		26,0			300	
P100DA-82D		28,0			200	
P100DA-34D		31,0			122	
P100DA-72D		38,0			200	
P100DA-90D		40,5			300	
P100DA-75D		42,0		6 mm Brazing Tube	200	
P100DA-76D						
P100DA-96D		43,5		1/4" SAE Fem. Flare	300	
P100DA-91D		45,0				

HIGH PRESSURE AUTOMATIC RESET MODELS - HEAVY DUTY

More models are available. This is only a selection. For quantity orders customized models can be set up. Tolerances apply. For details and inquiries contact your Johnson Controls representative.

CODES	FUNCTION	SETPOINTS (bar g)		PRESSURE PORT	CABLE (cm)	SWITCH
		Open	Close			
P100EE-22D	Change over contact	20,7	27,6	1/4" SAE Fem. Flare	200	SPDT Heavy Duty
P100EE-20D		27,6	20,7	6 mm Brazing Tube	122	
P100EE-61D		28,0	21,0		200	
P100EE-19D		29,7	38,6	1/4" SAE Fem. Flare	61	
P100EE-82D		40,7	32,4		183	

HIGH PRESSURE AUTOMATIC RESET MODEL ATEX CERTIFIED

Below model is currently available, but more models will be set up with ATEX certification. Tolerances apply. For details and inquiries contact your Johnson Controls representative.

CODES	FUNCTION	SETPOINTS (bar g)		PRESSURE PORT	CABLE (cm)	SWITCH
		Open	Close			
P100CP-900D	Contact opens on pressure rise	18,5	13,0	6 mm Brazing Tube	129	SPST Standard Duty