

DIFFERENTIAL PRESSURE CONTROLS FSD SERIES

**Introduction**

FSD series differential pressure controls (oil pressure control) protect the refrigeration compressor and other machineries. In refrigeration system, lubrication system must be kept in a certain oil pressure in order to get well lubrication for every part. If the oil pressure is too low, compressors will happen "Cylinder sticking" for losing oil in normal running or starting, even destroy bearing pad of the compressor.

The differential pressure control receives the signal of discharge pressure from lubricating oil pump and suction pressure from compressor. And it maintains the two pressures in a certain differential range. When the difference is lower than the setting one, the switch automatically cuts the compressor circuit off to stop running.

Approvals: CQC (China), CE (Europe).



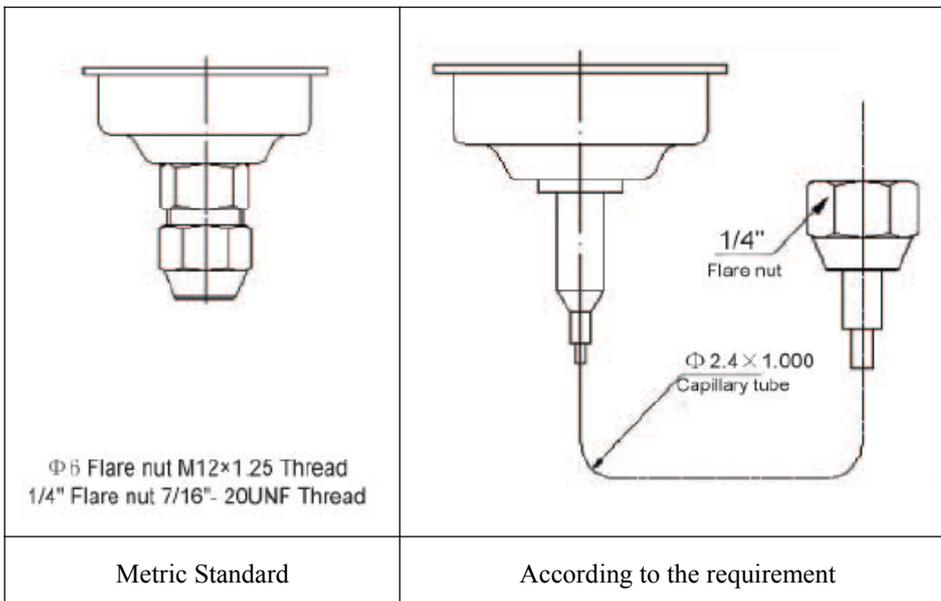
**Technical data**

Ambient temperature -20 ~ 70°C  
 Medium temperature -25 ~ 120°C  
 Available medium  
 R134a,R22,R407C,R404A/R507, water, air and oil  
 Cable connection  
 The cable entry can be used for 15mm dia.

**Electrical data**

Voltage (V)		A.C. 110		A.C.220	
		Current (A)		Current (A)	
Non-inductive current		24		16	
Inductive current	Full load	24		16	
	Starting	144		96	

**Connection**



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**Type & data (Unit: Mpa)**

Symbol	Model	Adjust range (MPa)	Aswitch differential (MPa)	Factory setting (MPa)	Dealy time (sec.)	Max. working pressure (MPa)
FSD-C series	FSD15C	0.03→0.15	≤0.05	0.05		1.7
	FSD2C	0.03→0.2	≤0.05	0.05		1.7
	FSD35C	0.05→0.35	≤0.05	0.1		1.7
	FSD35CH	0.05→0.5	≤0.1	0.1		3.3
	FSD35CH-6	0.1→0.6	≤0.1	0.1		3.3
FSD-T series	FSD35T	0.05→0.35	≤0.05	0.1	60	1.7
	FSD35TH	0.05→0.5	≤0.1	0.1	60	3.3
	FSD35TH-6	0.1→0.6	≤0.1	0.1	60	3.3

Any special requirements please remark behind the model number.

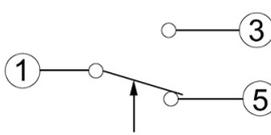
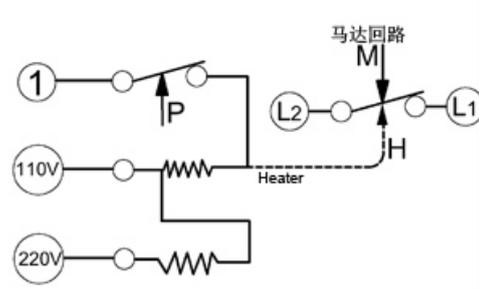
**Placing Order** Inch connection size (7/16-20UNF), please state letter "E" after the model number.

"MGL" stands for capillary, standard length is 1 m (including flare nuts), please mark the special length requirement.

"F" stands for "Internal thread connection".

"A" stands for "Stainless steel air box assembly".

**Contact form**

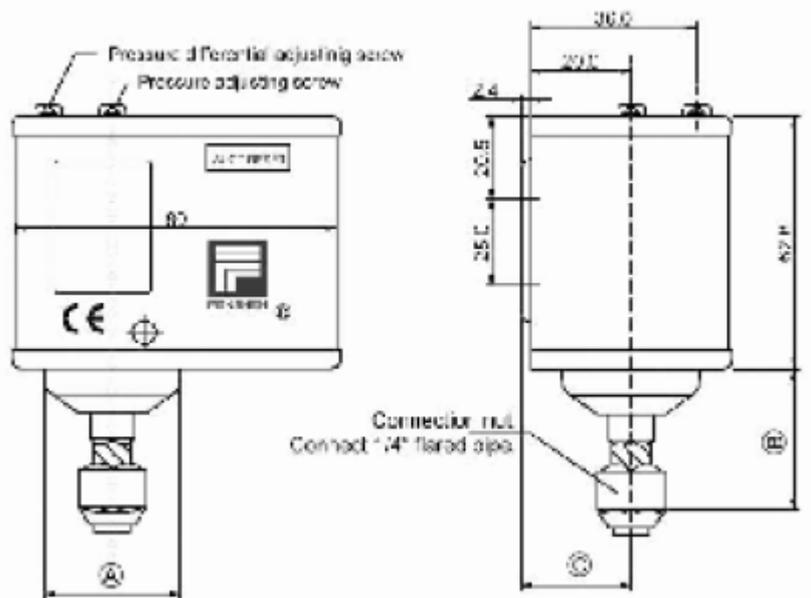
Symbol	Model	Contact Form	Instrction
FSD-C series	FSD15C,FSD2C,FSD35C, FSD35CH,FSD35CH-6		<p>① : Common contact</p> <p>①-③ : Close on pressure rise</p> <p>①-⑤ : Close on pressure drop</p>
FSD-T series	FSD35T,FSD35TH, FSD35TH-6		<p>↑ P: Increase of pressure</p> <p>↑ H: Increase of time</p> <p>↑ M: Manual reset</p>

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**Dimension  
(Unit: mm)**

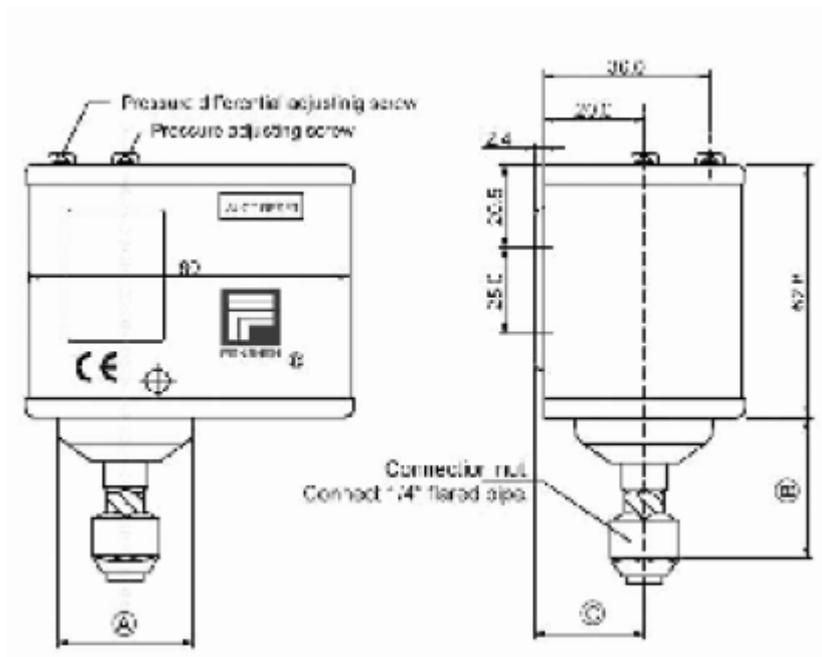
■ **FSD-C series**

Model	Dimension	
	A	B
FSD15C	33	51
FSD2C		
FSD35C		
FSD35CH	21	36
FSD35CH-6		



■ **FSD-T series**

Model	Dimension	
	A	B
FSD35T	33	51
FSD35TH	21	36
FSD35TH-6		



## DIFFERENTIAL PRESSURE CONTROLS FP74E

### Introduction

FP74E pressure differential control is usually used in the water system of central conditioning. It controls the pressure difference between water supply pipe and return pipe.

FP74E pressure differential control is equipped with a single-pole double-throw floating-point contact. The movement of floating-point will connect the contact plate to open or close the operating valve of motor drive.

One typical application is to mount the valve on the by-pass line near the system's water pump. When the pressure difference between the system's feeding and return pipes is over the set value of the controller, the valve turns up and more water will flow through the by-pass valve and hereby reduces the pressure difference between feeding and return pipes. On the opposite, the pressure differential will increase between these two pipes of the water system.



### Technical data

Adjusting data 0.05→0.4 Mpa

Switch differential 0.014 MPa

Switch contact capacity 50Hz, AC220V 6A;DC24V 4A

Contact action SPDT (Floating point)