

Differential pressure switch

Model DPSM-690

WIKA data sheet DPSM-690

Applications

Compressors
Driers
HVAC
Cold storage
Chillers

Special features

Wide adjustable range
In-built sturdy mechanism
Manual reset
Time delay relay



Differential pressure switch, model DPSM-690

Description

Type DPSM-690 is used as a safety device on pressure lubricated refrigeration compressors, where under any operating conditions the lubricating oil pressure has to be kept higher than the suction pressure or crankcase pressure.

The bellows marked OIL is connected to outlet side of compressor or at discharge from crankshaft lubrication system, and measures the lubricating oil pressure P1. Bellows marked LP is connected to the compressor crankcase and measures the crankcase pressure P2.

Differential Pressure (P1–P2) is the pressure available for the lubrication system. If during start up, differential pressure fails to reach the set value, or if during operation differential pressure falls below the set value, the control device breaks the circuit to compressor motor after an allowable time delay. Once the circuit is broken, it has to be reset manually by pressing the reset knob.

General specification

Enclosure

Powder painted Mild Steel

Enclosure Protection

IP:30, IS:13947 (Part1),1993

Reset

- Manual
- Auto

Time Delay

60 seconds

Sensing Element

304 LSS Bellows
(SS Bellows IS:110V AC for NH₃ application)

Electrical Rating

- With TDR AC 15: 2A 250V AC
DC 13: 0.2A 250V DC
- Without TDR AC 15: 5A 250V AC
DC 13: 0.25A 250V DC

Cable Entry

Suitable for 6 to 14 mm dia cable

Ambient Temperature

(-)40°C ... 60°C

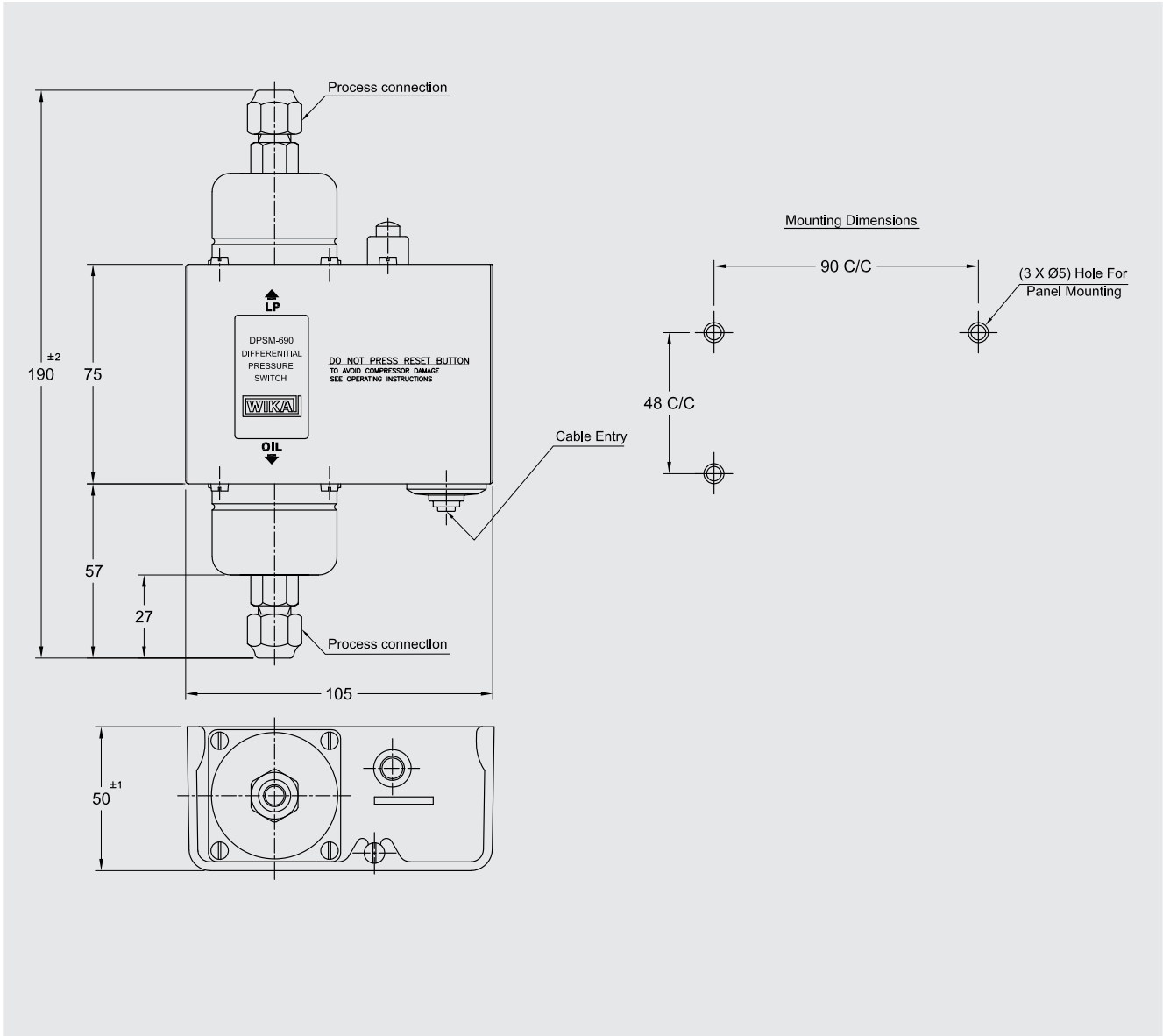
Mounting

- Surface
- Panel

Technical data

Model	Media	Code	Differential pressure range (bar)	Differential (bar)	Maximum pressure (bar)	Time delay	Connection size
DPSM-690	R12, R22, R40	A1	0.3 ... 4.5	0.2 Fixed	22	60 sec	1/4" Flare
	R12, R22, R40	A2				60 sec	1/4" Flare
	R717 (NH ₃)	A3				60 sec	G 3/8 B supplied with Ø10 mm OD and 6.5 mm ID for welding / soldering / copper tubing
	Oil, Water, Gas	A4				Not available	G 3/8 B

Dimensions in mm



Ordering information

Model / Refrigerant / Differential pressure range / Differential / Maximum pressure / Connection size

11/2021.00.EN D9

© 2021 WIKAI Instruments India Pvt. Ltd., all rights reserved.
 The specifications given in this document represent the state of engineering at the time of publishing.
 We reserve the right to make modifications to the specifications and materials.

