



Danfoss KP 21 Pressure Switch Installation Guide

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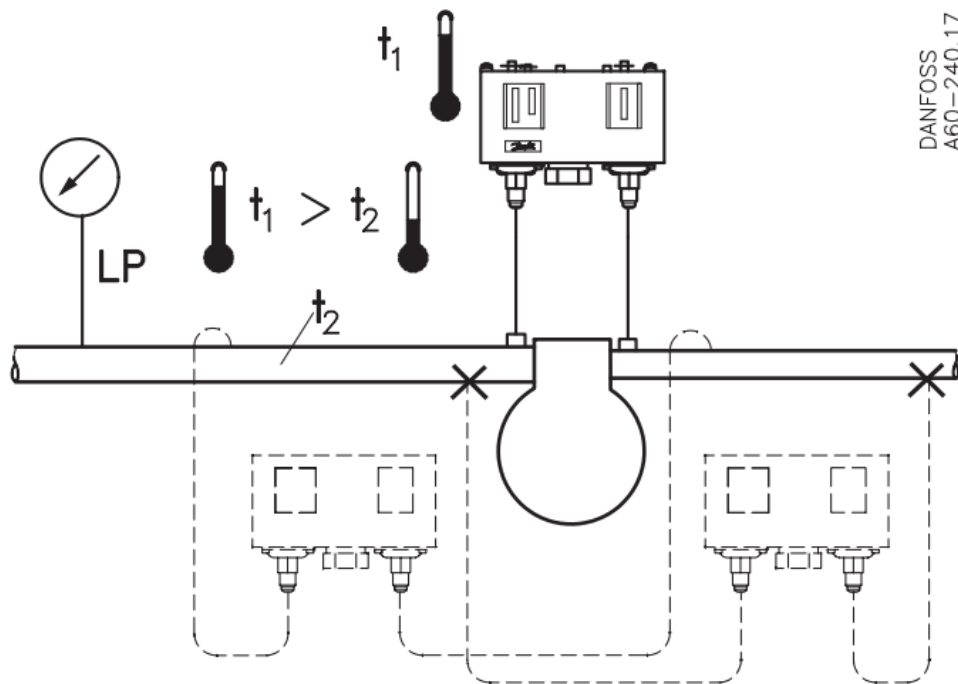


Installation guide
Pressure switch
Type KP 21

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Ambient temperatures



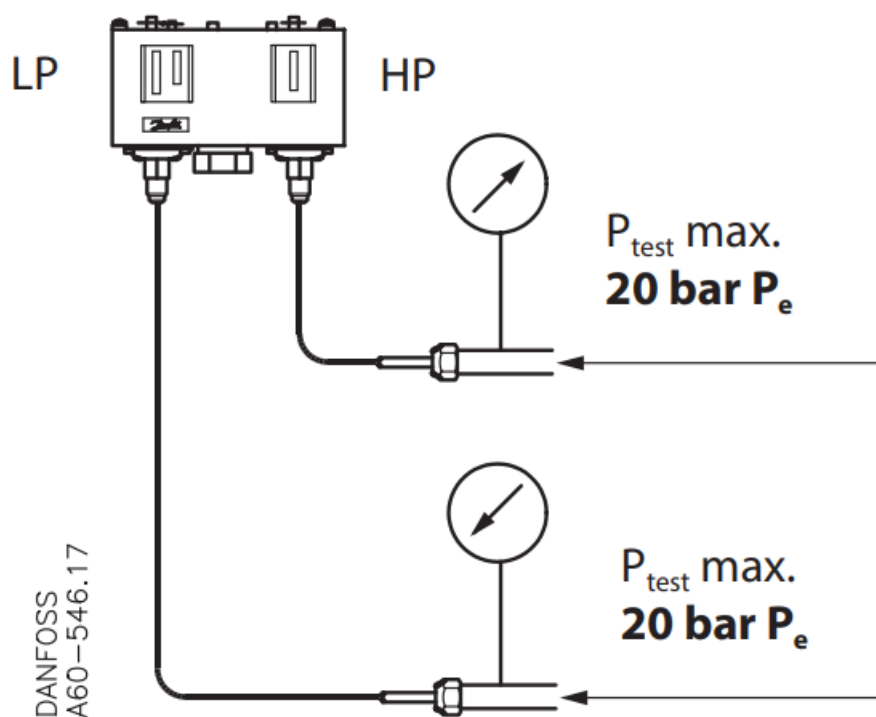
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t_1 min. $-40\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$)
 $-25\text{ }^{\circ}\text{C}$ ($-13\text{ }^{\circ}\text{F}$)
 t_1 max $65\text{ }^{\circ}\text{C}$ ($150\text{ }^{\circ}\text{F}$)



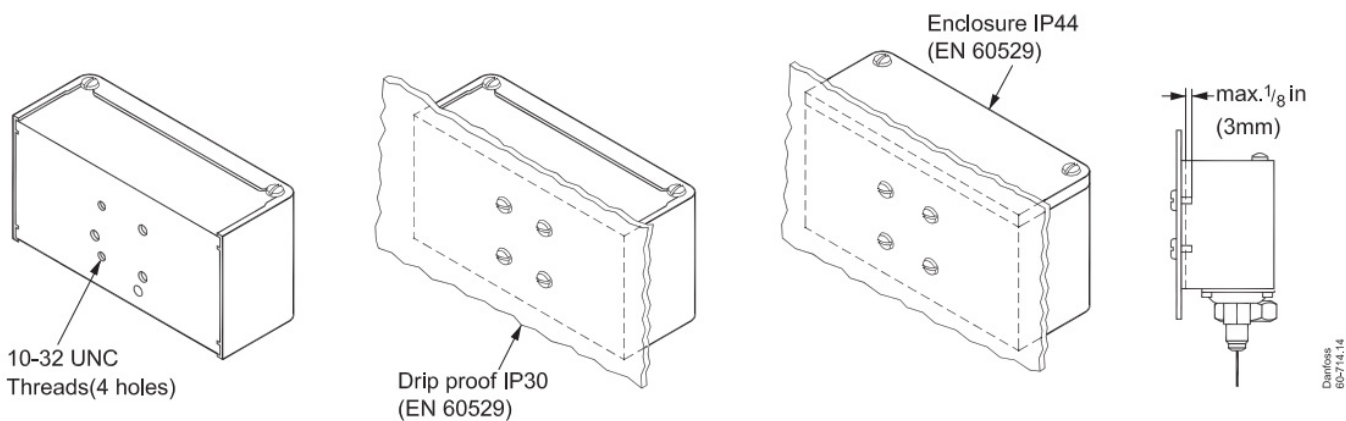
Caution: Do not mount a switch in a position where dirt, sediment or oil will affect the operation of the switch.

Test pressure (p test)



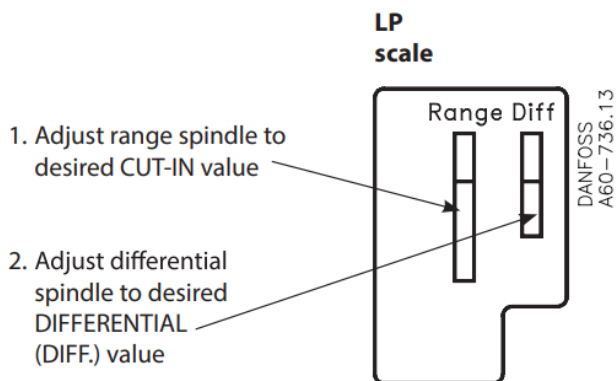
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Enclosure



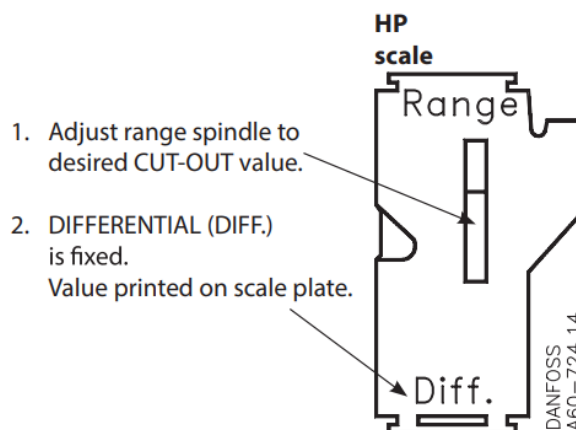
CAUTION: The mounting panel must be plane to avoid damage of switch.

Low pressure (LP) side setting



CUT-IN minus DIFFERENTIAL equals CUT-OUT

High pressure (HP) side setting

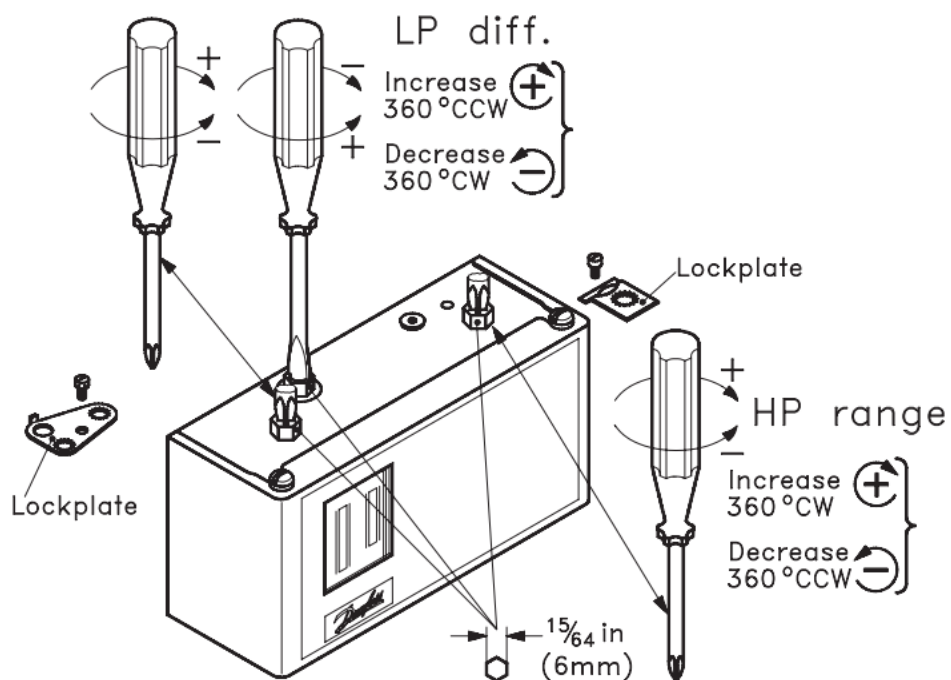


CUT-OUT minus DIFFERENTIAL equals CUT-IN

LP range

Increase 360°CW (+)

Decrease 360°CCW (-)





CAUTION: Disconnect power supply before wiring connections are made or service to avoid possible electrical shock or damage to equipment. Do never touch live parts with your fingers or with any tool.

Contact load

Alternating current:

AC 1: 16 A, 400 V

AC 3: 16 A, 400 V

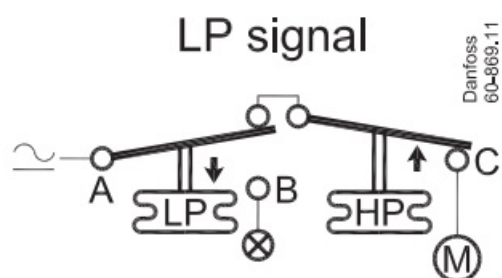
AC15: 10 A, 400 V

Max. starting current (L.R.): 112 A, 400 V

Direct current:

DC13: 12 W, 220 V control current

Function



Note!

= Load



= Signal option



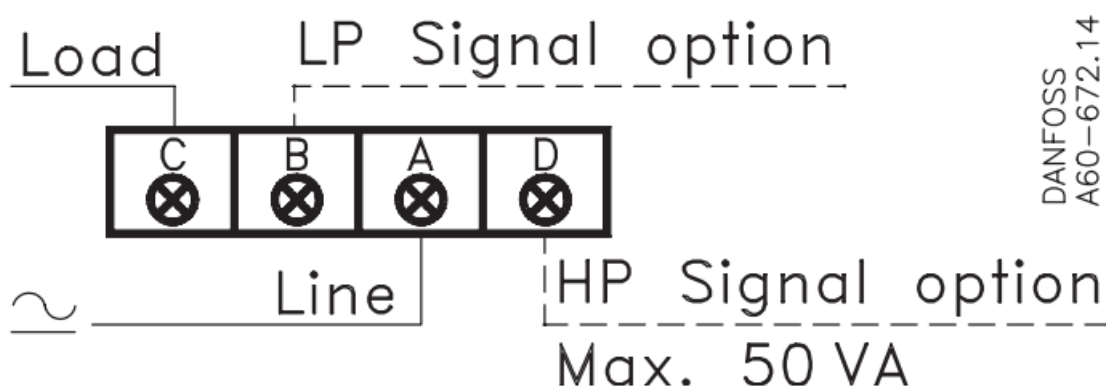
= Bellows movement on pressure rise



= Bellows movement on pressure drop

Controls with low pressure (LP) and high pressure (HP) signal

Terminal block





CAUTION: Use terminal screws furnished in the contact block.

Use tightening torque (20 lb.) in 2.3 Nm.

Use copper wire only.

Low pressure (LP) side:

A-C close on LP rise

A-C open on LP drop

High pressure (HP) side.

A-C open on HP rise

A-C close on HP drop

LP signal option:

A-B close on LP drop

HP signal option

A-D close on HP rise

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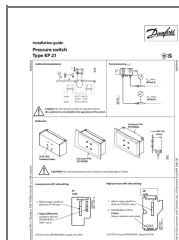
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Info for UK customers only: Danfoss Ltd., 22 Wycombe End, HP9 1NB,

Documents / Resources



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KP 21 Pressure Switch, KP 21, Pressure Switch, Switch