

Installation guide

Pressure switch

Type KP 21

060R9410

Ambient temperatures

DANFOSS A60-240.17

t_1 min. -40°C (-40°F)
 -25°C (-13°F)
 t_1 max 65°C (150°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})

DANFOSS A60-546.17

$P_{\text{test max.}}$
20 bar P_e

$P_{\text{test max.}}$
20 bar P_e

060R9410

Enclosure

10-32 UNC Threads(4 holes)

Drip proof IP30 (EN 60529)

Enclosure IP44 (EN 60529)

max. $1/8$ in (3mm)

Danfoss 80714.14

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

Low pressure (LP) side setting

DANFOSS A60-736.13

- Adjust range spindle to desired CUT-IN value
- Adjust differential spindle to desired DIFFERENTIAL (DIFF.) value

CUT-IN minus DIFFERENTIAL equals CUT-OUT

High pressure (HP) side setting

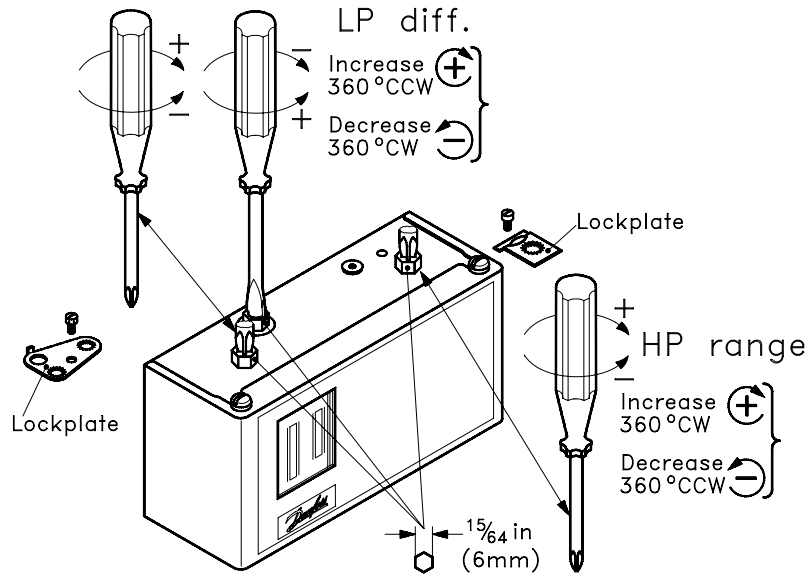
DANFOSS A60-724.14

- Adjust range spindle to desired CUT-OUT value.
- DIFFERENTIAL (DIFF.) is fixed. Value printed on scale plate.

CUT-OUT minus DIFFERENTIAL equals CUT-IN

LP range

Increase 360°CW (+)
Decrease 360°CCW (-)



DANFOSS
A60-721.16



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

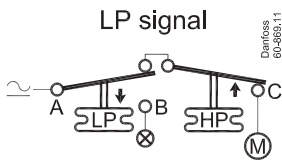
Alternating current:

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



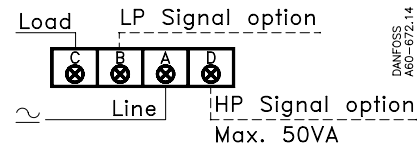
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60C465.11

Note!

- (M) = Load
- (X) = Signal option
- = Bellows movement on pressure rise
- = Bellows movement on pressure drop

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

Terminal block



DANFOSS
A60-672.14



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