



Installation Guide

Pressure Control Types KP 15, KP 17W, KP 17B, KP 25

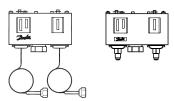
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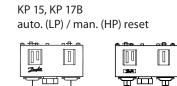
Refrigerants

KP15, KP17W, KP17B, KP25: HCFC and non-flammable HFC

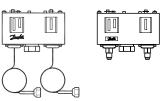
KP 15

man. (LP) / man. (HP) reset





KP 15, KP 17W, KP 25 auto. (LP) / auto (HP) reset



CAUTION:

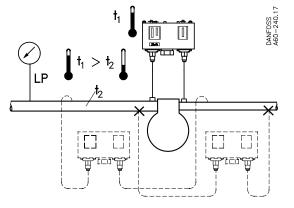
Do not install these controls on ammonia systems

Ambient temperatures / Mounting requirements

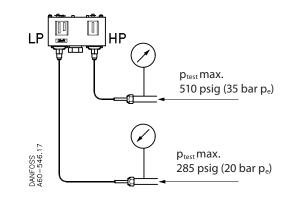
t₁ min.: -40 °F (-40 °C)

-13 °F (-25 °C) (PED approved products)

t₁ max.: 149 °F (65 °C)



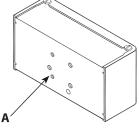
Test pressure (P_{test})



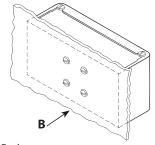
CAUTION:

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

Enclosure



A: 10 – 32 UNC Threads (4 holes)



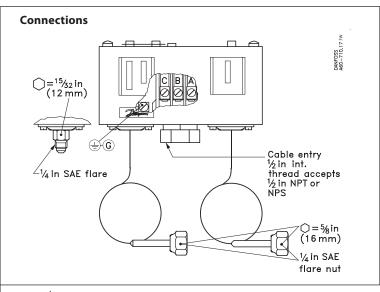
B: Enclosure ~NEMA1

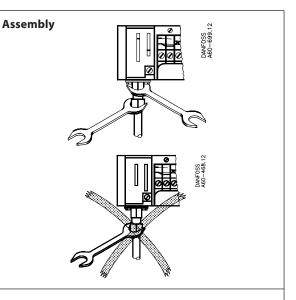
max. 1/8 in. (3 mm)

CAUTION:

The mounting panel must be plane to avoid damage of control.









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.

Wiring

All wiring should conform to the National Electrical Code and local regulations.

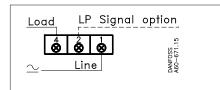
SPDT

Terminal block

Controls with low pressure (LP) signal

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

Terminal block



Load LP Signal option Line HP Signal option Max. 50VA

CAUTION:

Use terminal screws furnished in the contact block.
Use tightening torque 20 lb. in (2.3 Nm).

Low pressure (LP) side: A-C close on LP rise A-C open on LP drop

Use copper wire only.

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

See label for current wiring inside cover

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

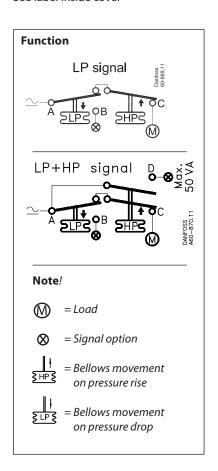
LP signal option: A-B close on LP drop

HP signal option: A-D close on HP rise

Contact load ratings

120 V a.c.	16 FLA, 96 LRA
240 V a.c.	8 FLA, 48 LRA
240 V d.c.	12 W pilot duty

See label inside cover

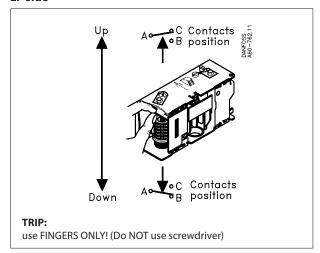




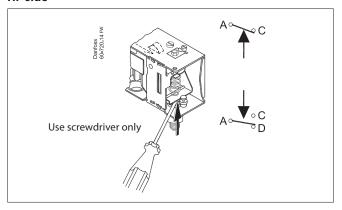
Manual tripping

(Electrical contacts/wiring test)

LP side



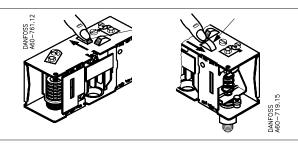
HP side



Note:

On controls with LP and/or HP man. reset, push corresponding LP and/or HP man. reset knob during tripping.

Manual reset



To resume control operation after safety cut-out, push man. reset knob as indicated.

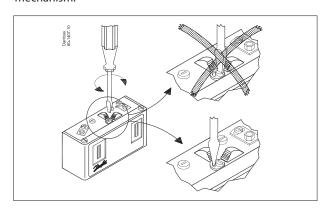
Note:

LP man. reset is possible only after system pressure has risen above cut-in value.

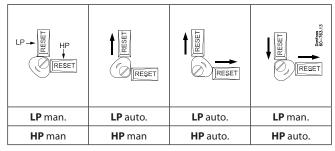
HP man. reset is possible only after system pressure has dropped below cut-out value.

Convertible reset

Insert a screwdriver into the slot on the lock disc and trn it to desired reset configuration. Do not turn the screw on the lock disc as it may damage the convertible reset mechanism.



Reset options



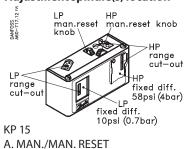
Note:

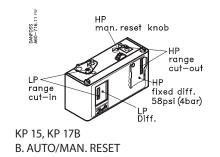
Do not select automatic reset if safety of the system requires manual reset.

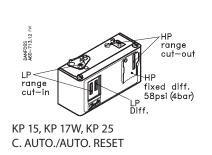
Note:

Selected reset configuration may be protected against unauthorized actions applying a seal.

Adjustment spindle(s) location





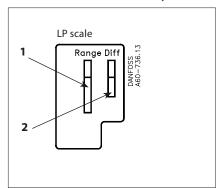




Setting

Low pressure (LP) side setting

KP 15, KP 17W, KP 17B and KP 25 with LP auto. reset only



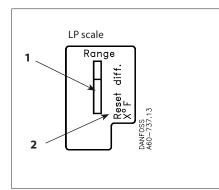
- 1. Adjust range spindle to desired CUT-IN value.
- 2. Adjust differential spindle to desired DIFFERENTIAL (DIFF.) value.

CUT-IN minus DIFFERENTIAL equals CUT-OUT

Example:

CUT-IN -**CUT-OUT** DIFF. 30 psig 10 psi = 20 psig (2.1 bar) (0.7 bar) (1.4 bar)

KP 15A with LP man. reset only KP 15A with convertible LP auto. man. reset



- 1. Adjust range spindle to desired CUT-IN value.
- 2. DIFFRENTIAL (DIFF.) is fixed. Value printed on scale plate.

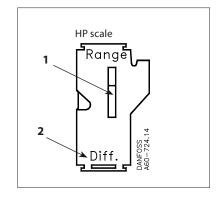
CUT-IN equals CUT-OUT plus DIFFERENTIAL

Example:

CUT-OUT+ DIFF. CUT-IN 12 psig + 10 psi =22 psig (0.8 bar) (0.7 bar) (1.5 bar)

High pressure (HP) side setting

KP 15, KP 17W, KP 17B and KP 25 with HP auto. or man. reset



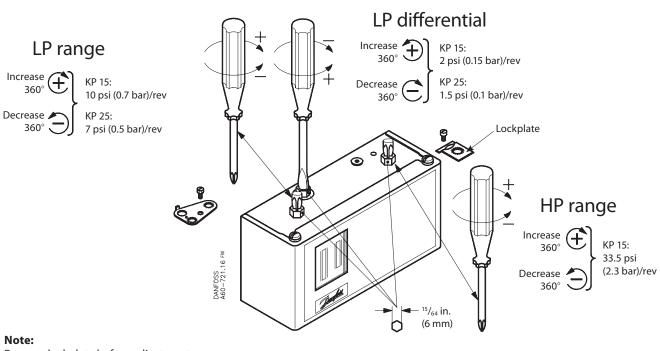
- 1. Adjust range spindle to desired CUT-OUT value.
- 2. DIFFRENTIAL (DIFF.) is fixed. Value printed on scale plate.

CUT-OUT minus DIFFERENTIAL equals CUT-IN

Example:

CUT-OUT- DIFF. **CUT-IN** 203 psig -145 psig 58 psi = (14 bar) (4 bar) (10 bar)

Adjustment



Remove lockplate before adjustment. Replace lockplate after adjustment (if desired).