

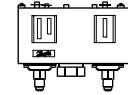
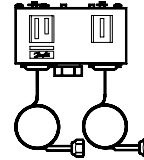
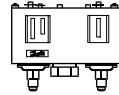
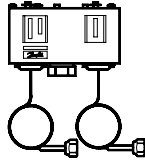
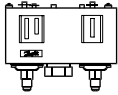
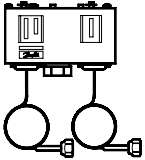
060R9747

060R9747

Types

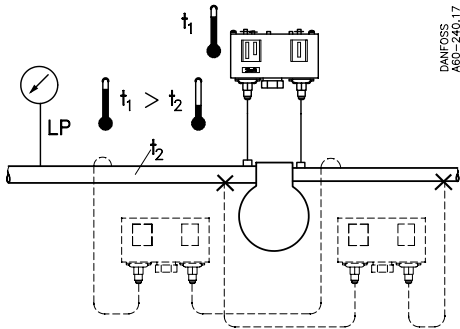
The controls can be used with R 12, R 22, R 500 and R 502 refrigerants.

CAUTION: Do not install these controls on ammonia systems



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

Ambient temperatures

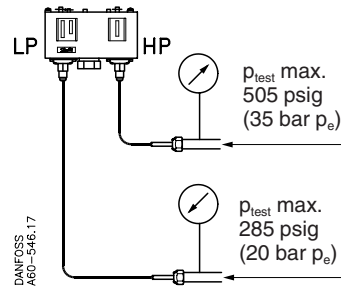


DANFOSS
A60-246.17

t_1 min. KP 15, KP 25: -40°F (-40°C)
 KP 17W, KP 17B: -13°F (-25°C)
 t_1 max. 150°F (65°C)

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

Test pressure (p_{TEST})

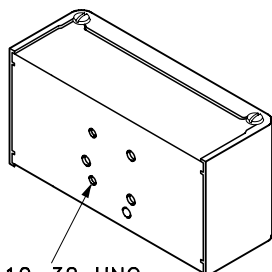


DANFOSS
A60-546.17

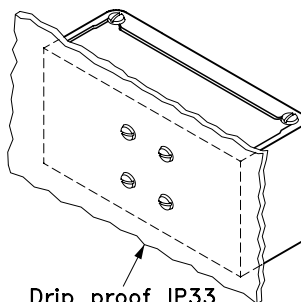
$p_{\text{test max.}}$
 505 psig
 (35 bar p_e)

$p_{\text{test max.}}$
 285 psig
 (20 bar p_e)

Enclosure

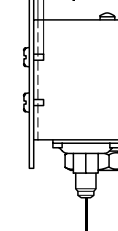


10-32 UNC
 Threads(4 holes)



Drip proof IP33
 (IEC 529)

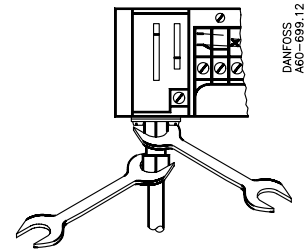
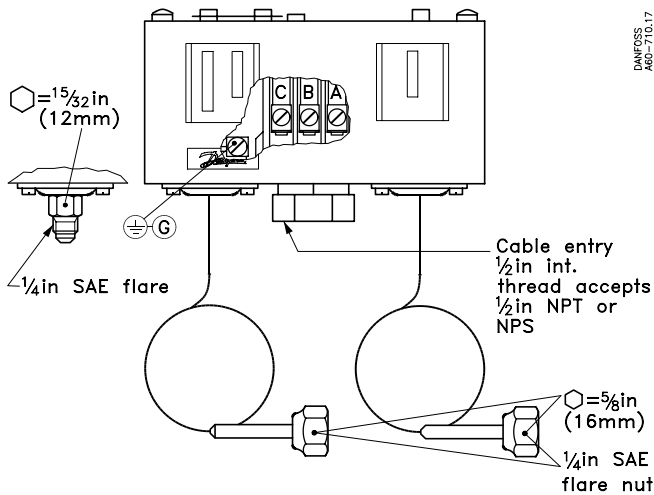
max. $\frac{1}{8}$ in
 (3mm)



DANFOSS
A60-774.13

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

Connections



Wiring

CAUTION: Disconnect power supply before wiring connections are made to avoid possible electrical shock or damage to equipment.

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

SPDT

Controls with low pressure (LP) signal

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

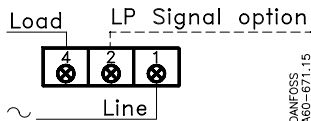
KP 15 and KP 17W. Only code nos.:
 060-2024 060-2027 060-2030
 060-2026 060-2029 060-2031
 (stamped on top of control)

Contact load ratings

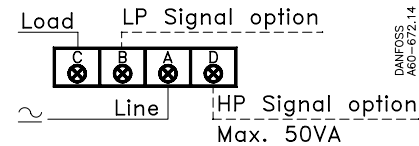
120 V a.c.	16 FLA, 96 LRA
240 V a.c.	8 FLA, 48 LRA
240 V d.c.	12 W pilot duty

See label inside cover

Terminal block



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

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.

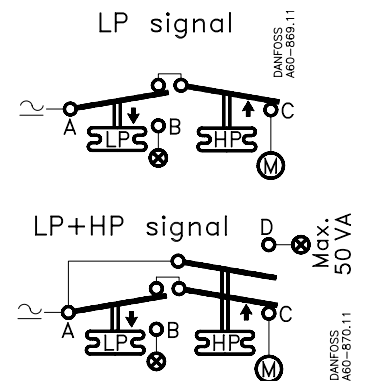
Low pressure (LP) side:
 A-C close on LP rise
 A-C open on LP drop

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

Function

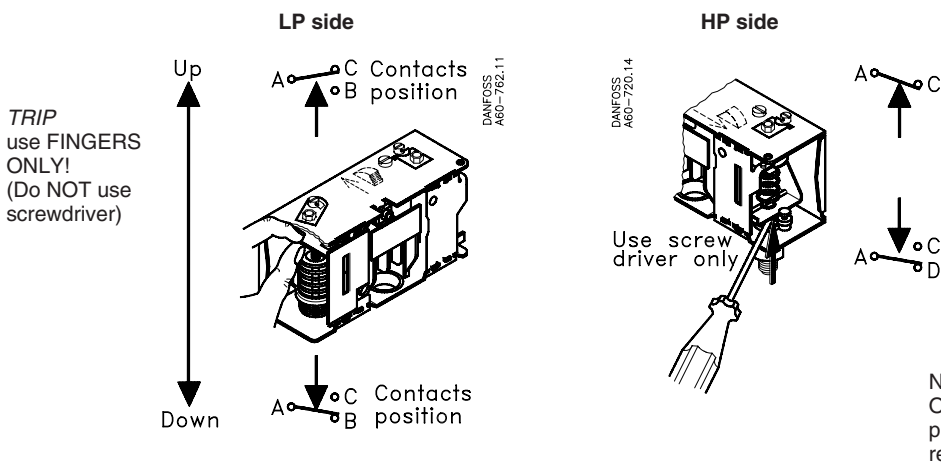


Note!

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

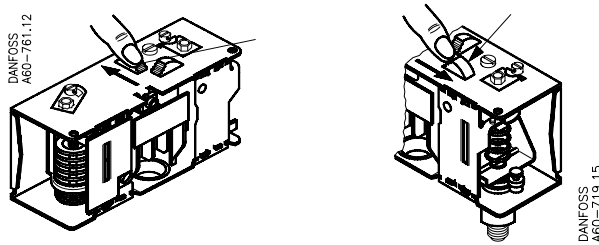
Manual tripping

(Electrical contacts/wiring test)



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

Manual tripping



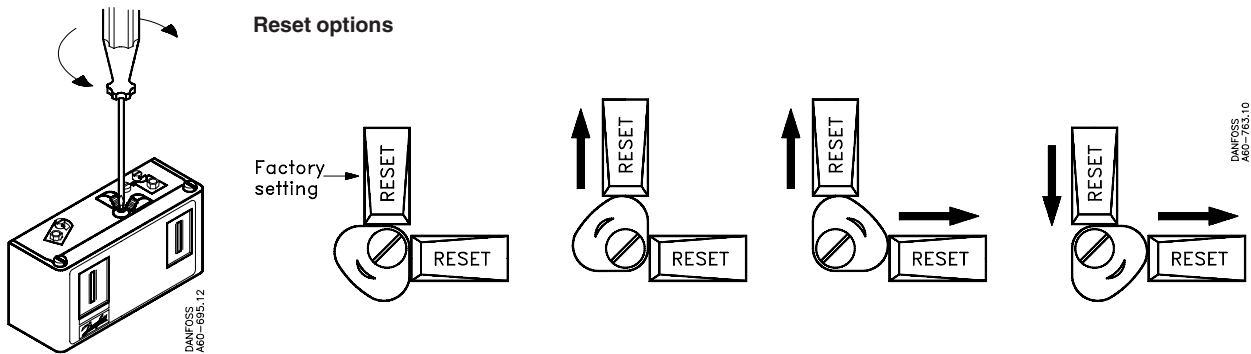
To resume control operation after safety cut-out, push man. reset knob as indicated.

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

KP 15, code nos.: 060-2025, 060-2028



Turn plate to desired reset configuration

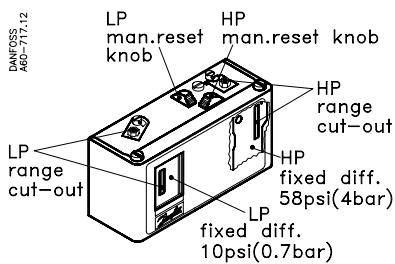
**LP man.
 HP-man.**

**LP-auto.
 HP-man.**

**LP-auto.
 HP-auto.**

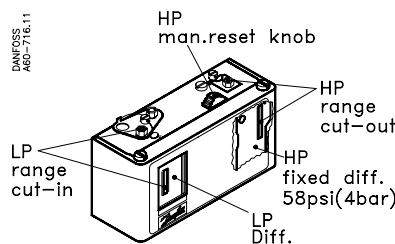
**LP-man.
 HP-auto.**

Adjustment spindle(s) location



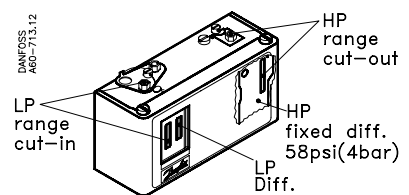
KP 15

A. MAN/MAN. RESET



KP 15, KP 17B

B. AUTO/MAN. RESET



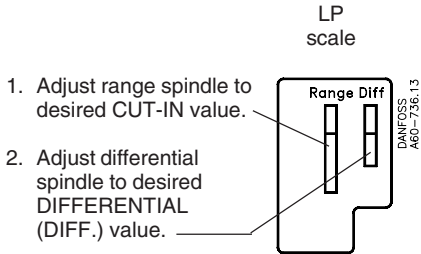
KP 15, KP 17W, KP 25

C. AUTO/AUTO. RESET

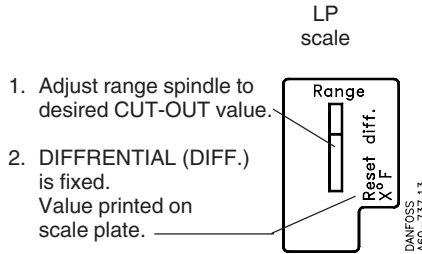
Setting

Low pressure (LP) side setting

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

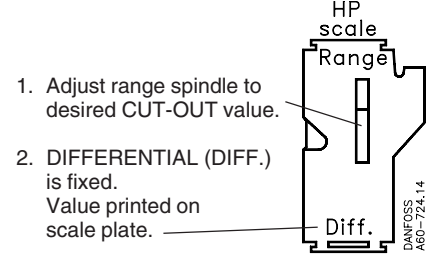


KP 15 with LP man. reset only
KP 15 with convertible LP auto.) man. reset



High pressure (HP) side setting

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



CUT-IN minus DIFFERENTIAL equals CUT-OUT

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

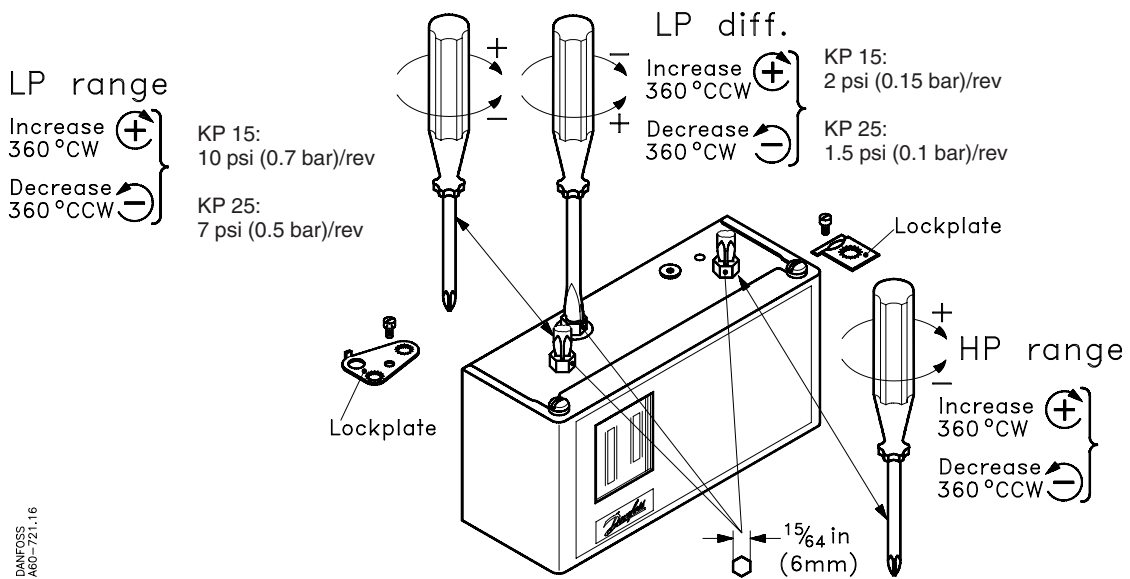
CUT-IN equals CUT-OUT plus DIFFERENTIAL

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

CUT-OUT minus DIFFERENTIAL equals CUT-IN

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

Adjustment



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