

Installation guide

Pressure switch, types KP 1, KP 1W, KP 1A, KP 2, KP 5, KP 5A, KP 6W, KP 6B, KP 6S, KP 6AW, KP 6AB, KP 6AS, KP 7W, KP 7B, KP 7S

060R9750

Refrigerants

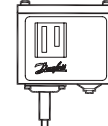
KP 1, KP 1W, KP 2, KP 5, KP 6W, KP 6B, KP 6S, KP 7W, KP 7B, KP 7S:
HCFC and non-flammable HFC

KP 1A, KP 5A, KP 6AW, KP 6AB, KP 6AS:
R717, HCFC and non-flammable HFC

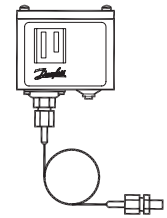
KP 1, KP 2,
KP 5, KP 6, KP 7



KP 1, KP 2,
KP 5, KP 6, KP 7

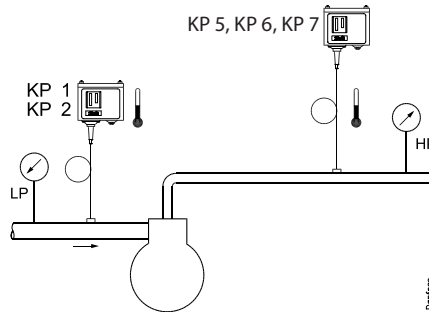
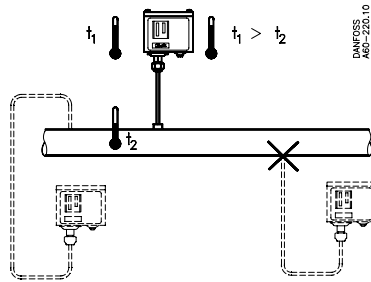


KP 1A, KP 5A



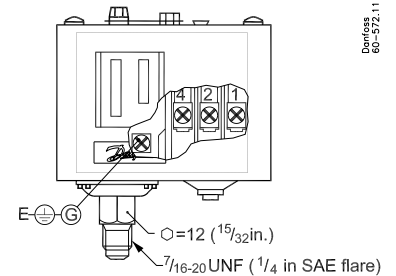
Ambient temperatures / Mounting requirements

-40 – 65 °C
-25 – 65 °C (PED approved units)

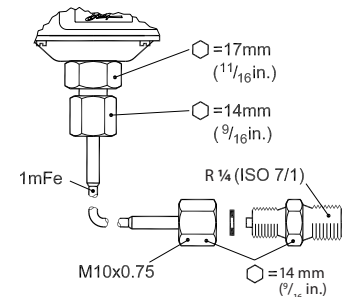


Relative humidity RH: 30 – 98%
Vibrations resistance: 4 g (10 – 1000 Hz)

Connections

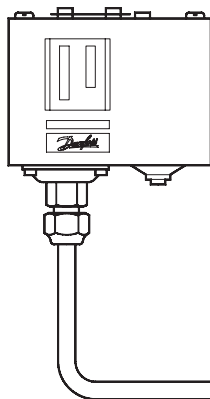


Connections for KP 1A, KP 5A, KP 6AS



Test pressure (P_{test}) PS/MWP

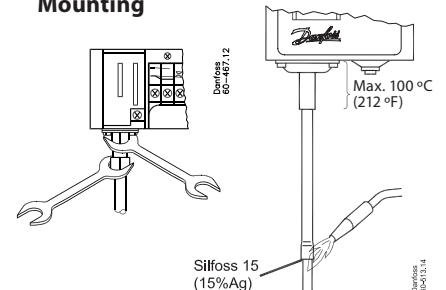
P_{test,max.}
 KP 1, KP 2: 20 bar p_e (285 psig)
 KP 2: 12 bar p_e (174 psig)
 KP 5, KP 7: 35 bar p_e (510 psig)
 KP 6: 46,5 bar p_e (675 psig)



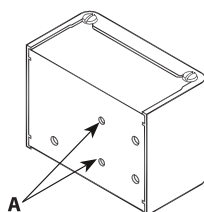
| Type | Regulation range | PS/MWP |
|-------------|------------------|---------------------|
| KP 1 | -0.2 – 7.5 bar | 245 psig / 17 bar |
| KP 1, reset | -0.9 – 7.0 bar | 245 psig / 17 bar |
| KP 1 W | 0.5 – 3.0 bar | 245 psig / 17 bar |
| KP 2 | -0.2 – 5.0 bar | 245 psig / 17 bar |
| KP 2 | -0.2 – 3.5 bar | 145 psig / 10 bar |
| KP 5 | 8 – 32 bar | 510 psig / 35 bar |
| KP 6 | 8 – 42 bar | 675 psig / 46,5 bar |
| KP 7 | 8 – 32 bar | 510 psig / 35 bar |

PS/MWP
(Maximum Working Pressure)

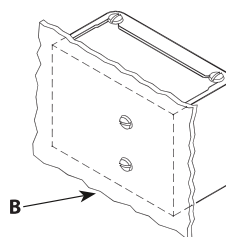
Mounting



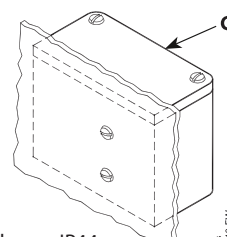
Enclosure



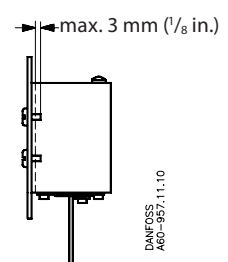
A: 8 – 32 UNC (M4)



B: Enclosure IP30
(EN 60529)



C: Enclosure IP44
(EN 60529)



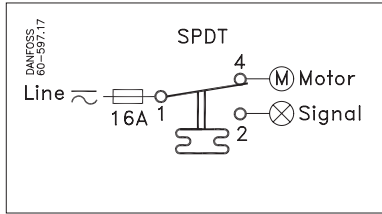
060R9750



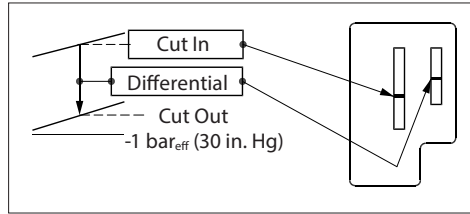
CAUTION:

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 1-4 opens on pressure drop



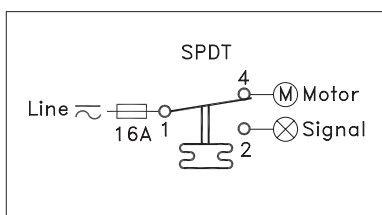
KP 1, KP 2



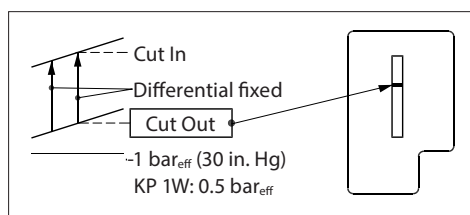
| | | |
|-------------|------------|-------|
| AC 1: 16 A | 400 V a.c. | DC 13 |
| AC 3: 16 A | | 12 W |
| AC 15: 10 A | | 220 V |

Short circuit protection:
Fuse 16 Amp.

Contact 1-4 opens on pressure drop



KP 1W, KP 1 manual reset

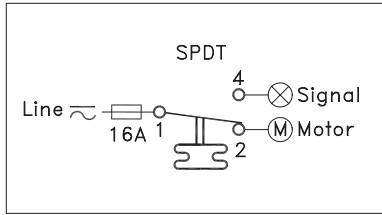


When used acc. to UL regulations

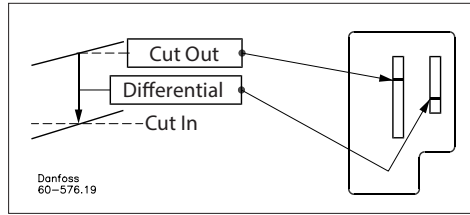
US LISTED Listed refrigeration controller 61B5

| Voltage | FL | LR | Resist. load | Pilot duty |
|---------|-----|----|--------------|------------|
| AC | DC | A | A | |
| 240 | — | 8 | 48 | 8 A |
| 120 | — | 16 | 96 | 16 A |
| — | 240 | — | — | — |
| | | | | 3A |
| | | | | 12 W |

Contact 1-2 opens on pressure rise

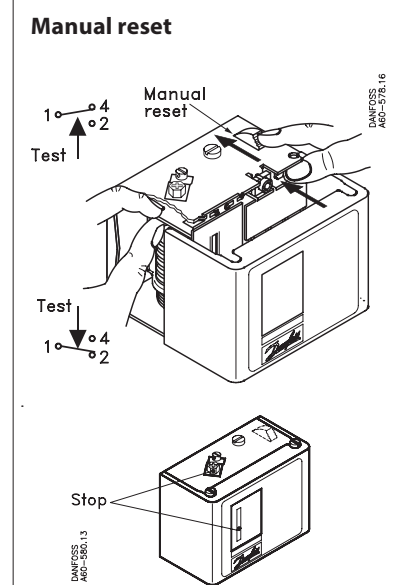
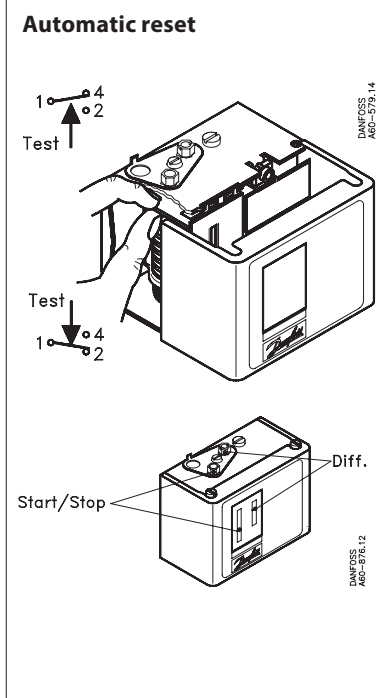


KP 5, KP 5A, KP 6, KP 6A, KP 7



Use copper wire only
Tightening torque 20 lb. in.

Manual trip function



| Type | Differential |
|--|------------------|
| KP 1, KP 1A | 0.7 bar (10 psi) |
| KP 5, KP 5A | 3 bar (43 psi) |
| KP 6B, KP 6S, KP 6AB, KP 6AS, KP 7B, KP 7S | 4 bar (58 psi) |

Note:
use FINGERS ONLY!
(Do NOT use screwdriver)

Adjustment

