

Installation guide

Pressure switch, 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:

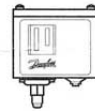
R22, R134a, R404A, R407A, R407C, R407F, R410A*) R422B, R422D, R448A, R449A, R452A, R507A, R513A, R717**)

For complete list of approved refrigerants, go to <http://products.danfoss.com/all-products/>

*) only for KP 6W, KP 6B, KP 6S, KP 6AW, KP 6AB, KP 6AS

**) only for KP 1A, KP 5A, KP 6AW, KP 6AB, KP 6AS

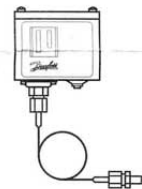
KP 1, KP 2,
KP 5, KP 6, KP 7



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



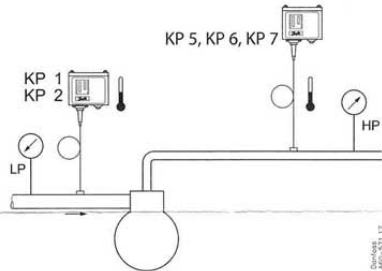
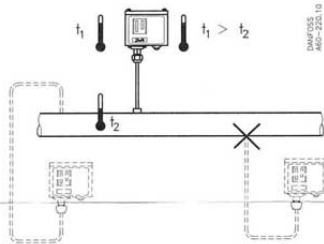
KP 1A, KP 5A



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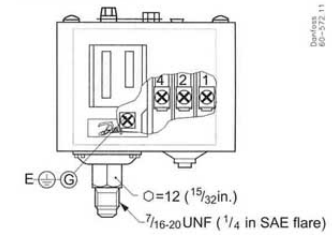
Ambient temperatures / Mounting requirements

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

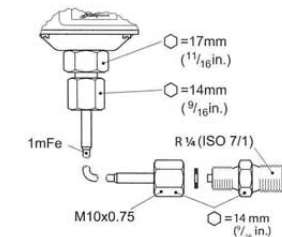


Relative humidity RH: 30 – 98%
Vibrations resistance: 4 g (10 – 1000 Hz)

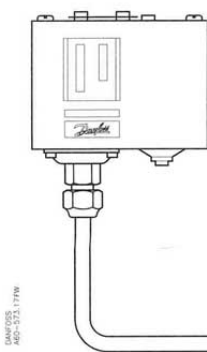
Connections



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



**Test pressure (P_{test})
PS/MWP**

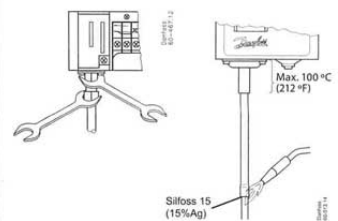


P_{test}max.:
 KP 1, KP 2: 20 bar p_e (285 psig)
 KP 2: 12 bar p_e (174 psig)
 KP 5, KP 7: 35 bar p_e (510 psig)
 KP 6: 46,5 bar p_e (675 psig)

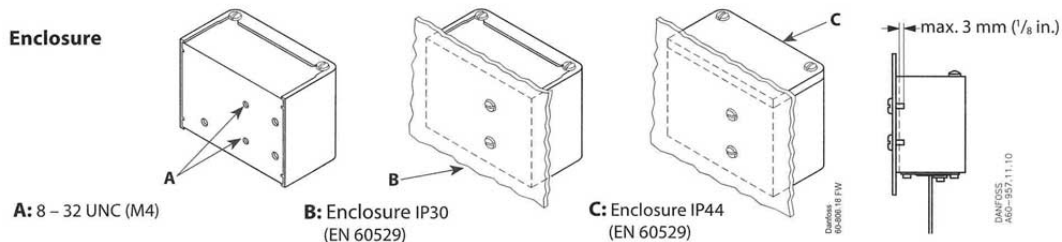
Type	Regulation range	PS/MWP
KP 1	-0.2 – 7.5 bar	245 psig / 17 bar
KP 1, reset	-0.9 – 7.0 bar	245 psig / 17 bar
KP 1 W	0.5 – 3.0 bar	245 psig / 17 bar
KP 2	-0.2 – 5.0 bar	245 psig / 17 bar
KP 2	-0.2 – 3.5 bar	145 psig / 10 bar
KP 5	8 – 32 bar	510 psig / 35 bar
KP 6	8 – 42 bar	675 psig / 46,5 bar
KP 7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

PS/MWP
(Maximum Working Pressure)

Mounting



Enclosure



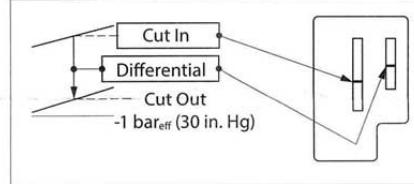
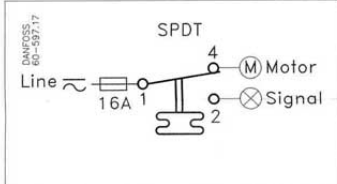


CAUTION:

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

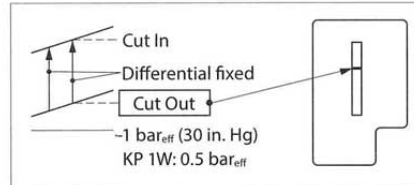
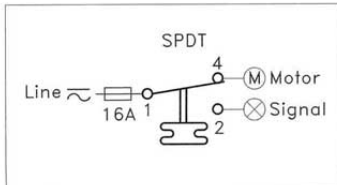


AC 1: 16 A	400 V a.c.	DC 13
AC 3: 16 A		12 W
AC 15: 10 A		220 V

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

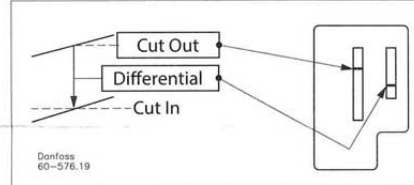
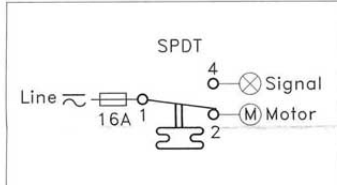
UL US LISTED Listed refrigeration controller 61B5

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

Use copper wire only
Tightening torque 20 lb. in.

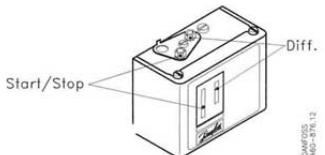
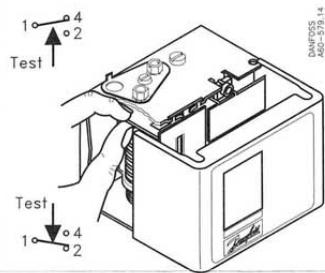
Contact 1-2 opens on pressure rise

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

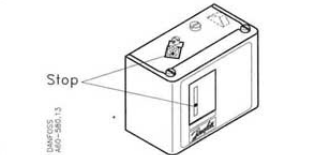
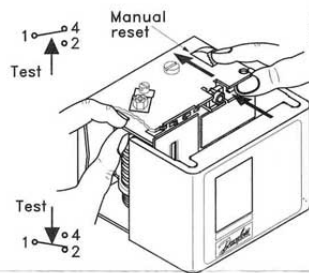


Manual trip function

Automatic reset



Manual reset



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

