

Installation Guide

Pressure Control, 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

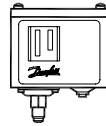
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Refrigerants

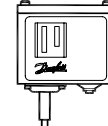
KP 1, KP 1W, KP 2, KP 5, KP 6W, KP 6B, KP 6S, KP 7W, KP 7B, KP 7S:
HCFC and non-flammable HFC

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

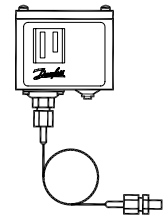
KP 1, KP 2,
 KP 5, KP 6, KP 7



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

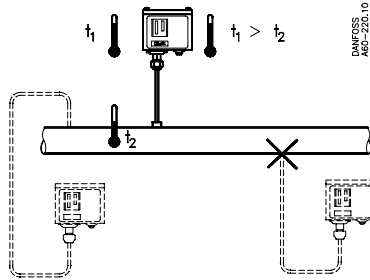


KP 1A, KP 5A

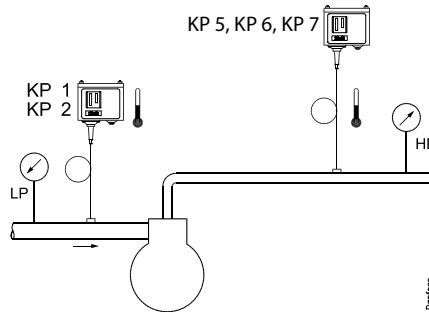


Ambient temperatures / Mounting requirements

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



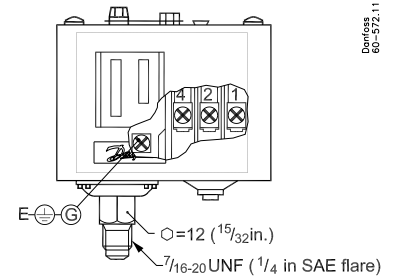
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 AGO-220.10



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 AGO-251.17

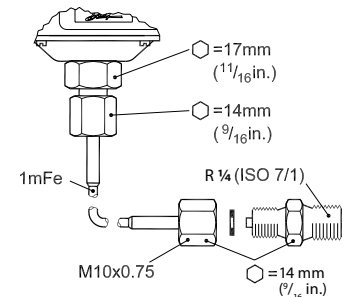
Relative humidity RH: 30 – 98%
 Vibrations resistance: 4 g (10 – 1000 Hz)

Connections



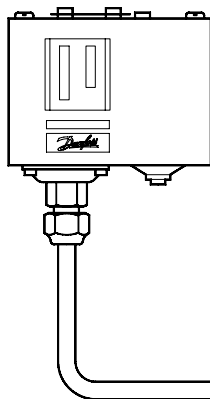
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Connections for KP 1A, KP 5A, KP 6AS



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)

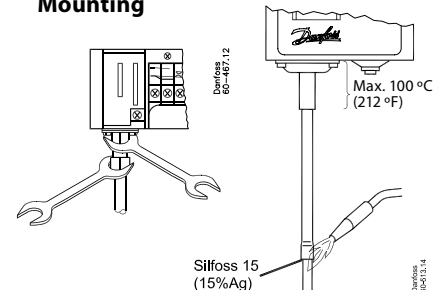


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 AGO-353.171W

PS/MWP
 (Maximum Working Pressure)

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

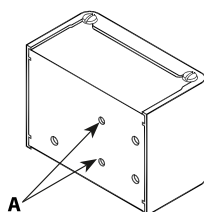
Mounting



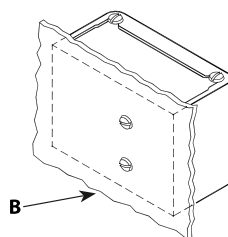
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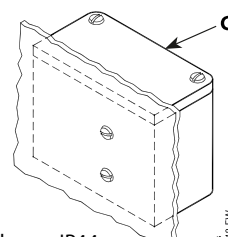
Enclosure



A: 8 – 32 UNC (M4)

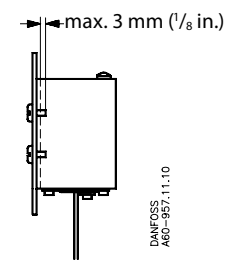


B: Enclosure IP30
 (EN 60529)



C: Enclosure IP44
 (EN 60529)

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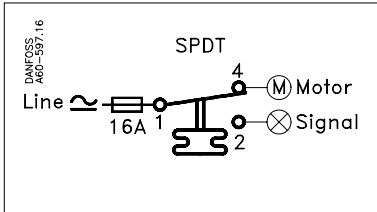
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 AGO-957.11:10



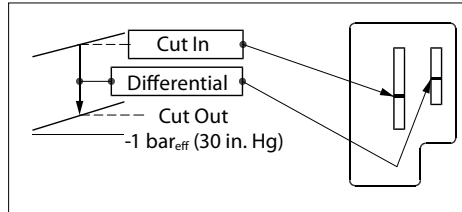
CAUTION:

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



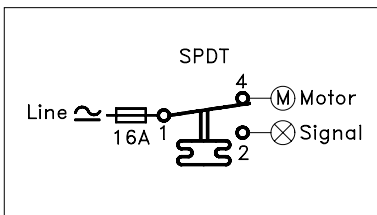
KP 1, KP 2



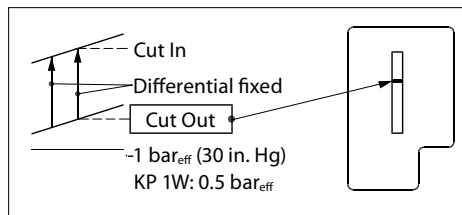
AC 1: 16 A	400 V a.c.	DC 13
AC 3: 16 A		12 W
AC 15: 10 A		220 V

Short circuit protection:
Fuse 16 Amp.

Contact 1-4 opens on pressure drop



KP 1W, KP 1 manual reset



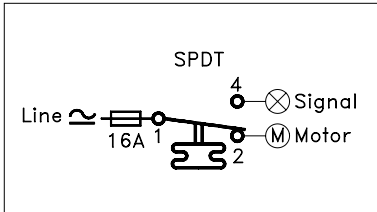
When used acc. to UL regulations

US LISTED Listed refrigeration controller 61B5

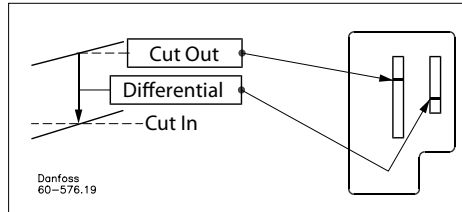
Voltage	FL	LR	Resist. load	Pilot duty
AC	DC	A	A	
240	—	8	48	8 A
120	—	16	96	16 A
—	240	—	—	—
				3A
				12 W

Use copper wire only
Tightening torque 20 lb. in.

Contact 1-2 opens on pressure rise

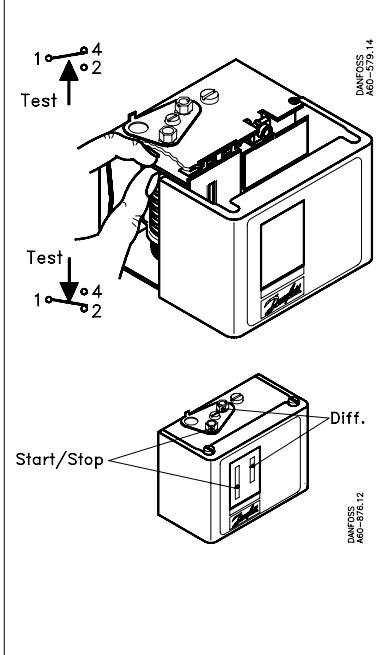


KP 5, KP 5A, KP 6, KP 6A, KP 7

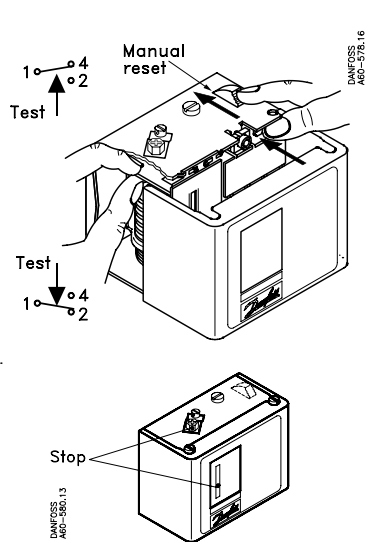


Manual trip function

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

