ENGINEERING
TOMORROW

Installation guide

Pressure switch

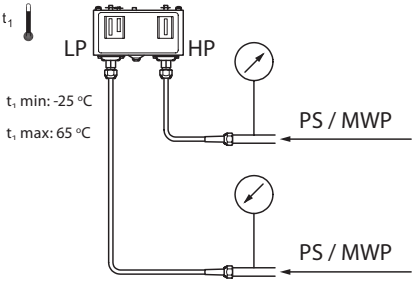
KP 17B, KP 17W and KP 17WB

UK CA

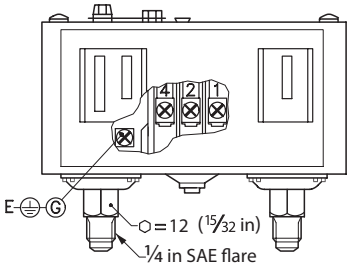
060R9801

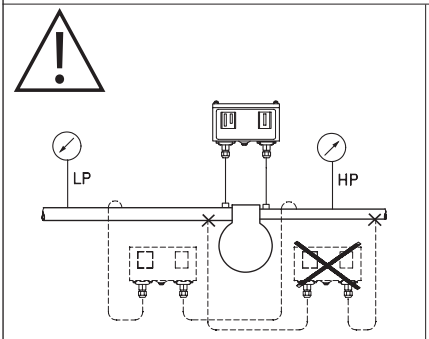
060R9801

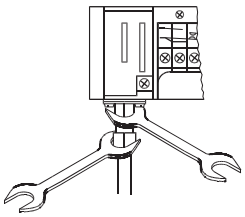
Refrigerants: R22, R134a, R404A, R407A, R407C, R407F, R422B, R422D, R448A, R449A, R452A, R507A, R513A and selected A2L refrigerants(R455A, R454C, R1234yf)

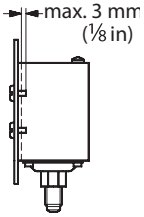


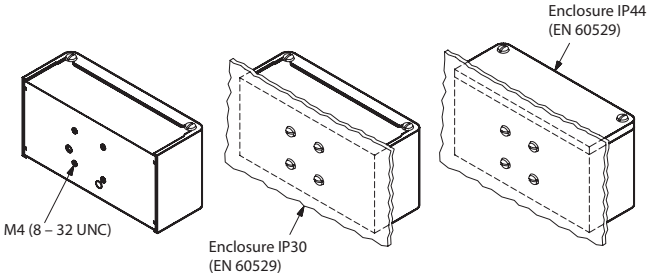
Range	PS / MWP
LP: -0.2 – 7.5 bar	17 bar / 245 psig
HP: 8 – 32 bar	32 bar/464 psig











Info for UK customers only: Danfoss Ltd., 22 Wycombe End, HP9 1NB, GB

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.

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

Use copper wire only

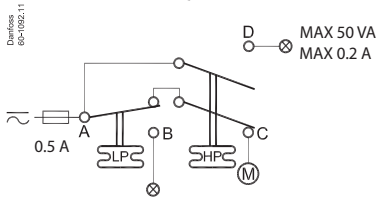
Tightening torque 20 lb. in. (2.3 Nm)

When used acc. to UL regulations

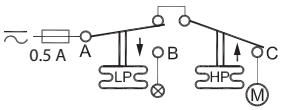
c UL us LISTED Listed refrigeration controller 61B5

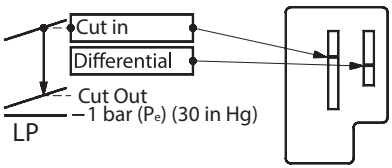
Voltage		FL	LR	Resist. load	Pilot duty
AC	DC	A	A		
240	—	8	48	8 A	3A
120	—	16	96	16 A	
—	240	—	—	—	12 W

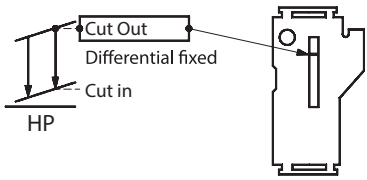
LP+HP signal

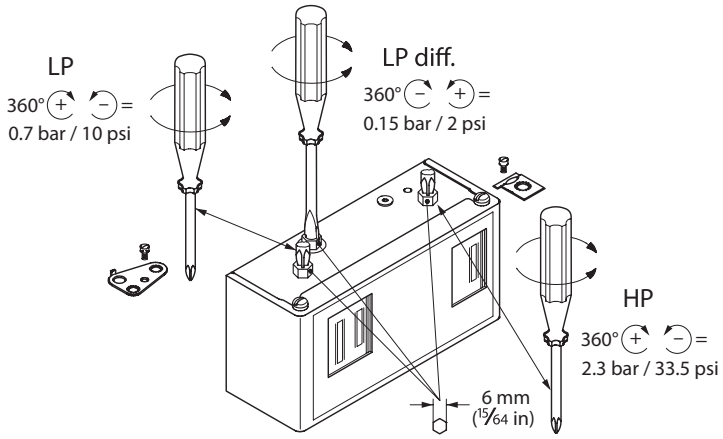


SPDT+LP signal









CAUTION:
Only for selected A2L refrigerants: R455A, R454C, R1234yf.

Electrical rating

AC-3: 16 A / 250 V AC

AC-15: 10 A / 250 V AC

Voltage	Current range	Power factor (cos phi)	Frequency
250V AC	≤ 4.0 A	PF ≥ 0,400	50Hz/60Hz
250V AC	> 4.0 to 6.0 A	PF ≥ 0,594	50Hz/60Hz
250V AC	> 6.0 to 16,0 A	PF ≥ 0,780	50Hz/60Hz

IMPORTANT NOTICE

Safety requirements

1. KP pressure switches shall only be employed in the units/systems which comply with the requirements for charge limits and requirements for avoiding ignition sources of IEC 60335-2-24, IEC 60335-2-40, IEC 60335-2-89, ISO 5149, EN378-1 or equivalent.
2. Applying the overload on the KPs must be prevented. If by any chance it was damaged, the system / unit shall be stopped and KP shall be replaced as necessary.
3. Electrostatic discharge protection and Electrical leakage protection shall be surely implemented by grounding or other measures.
4. Only trained personnel are authorized to handle flammable refrigerants systems and may do the installation, maintenance and exchange of the switch by using appropriate tools.
5. It is recommended to regularly check the function of KP switch.
6. KP pressure switches must be installed in an area with a low risk of mechanical damage.
7. Corrosion protection of KP pressure switches must be taken into account when used in a corrosive environment.
8. Cables shall not be in contact with sharp edges. The cables shall be connected with adequate stress relieve in order to prevent that pulling forces can be carried thorough the cable to the terminal.
9. In the event of pressure pulsation in the system, where switch is connected, these must be effectively dumped to prevent failure of the bellows. The cycle frequency of KP switch shall be kept as low as possible.
10. The KP switches shall not be installed in places where high level of vibration is present.

Disclaimer

The user is responsible for ensuring that third parties also comply with this Notice, e.g. in case that the KP switches are supplied to third parties, and e.g. that all installation guides are available with the KP switches during installation. It is required that all conditions of this guide are being met and secured when using KP pressure switches.

Danfoss shall not be responsible for any kind of direct and indirect or consequential damage or loss, including, but not limited to, loss of property, production, loss of profit, human injury arising out of the explosion or fire caused by the flammable nature of refrigerant.