



Danfoss KP Series Pressure Switch Installation Guide

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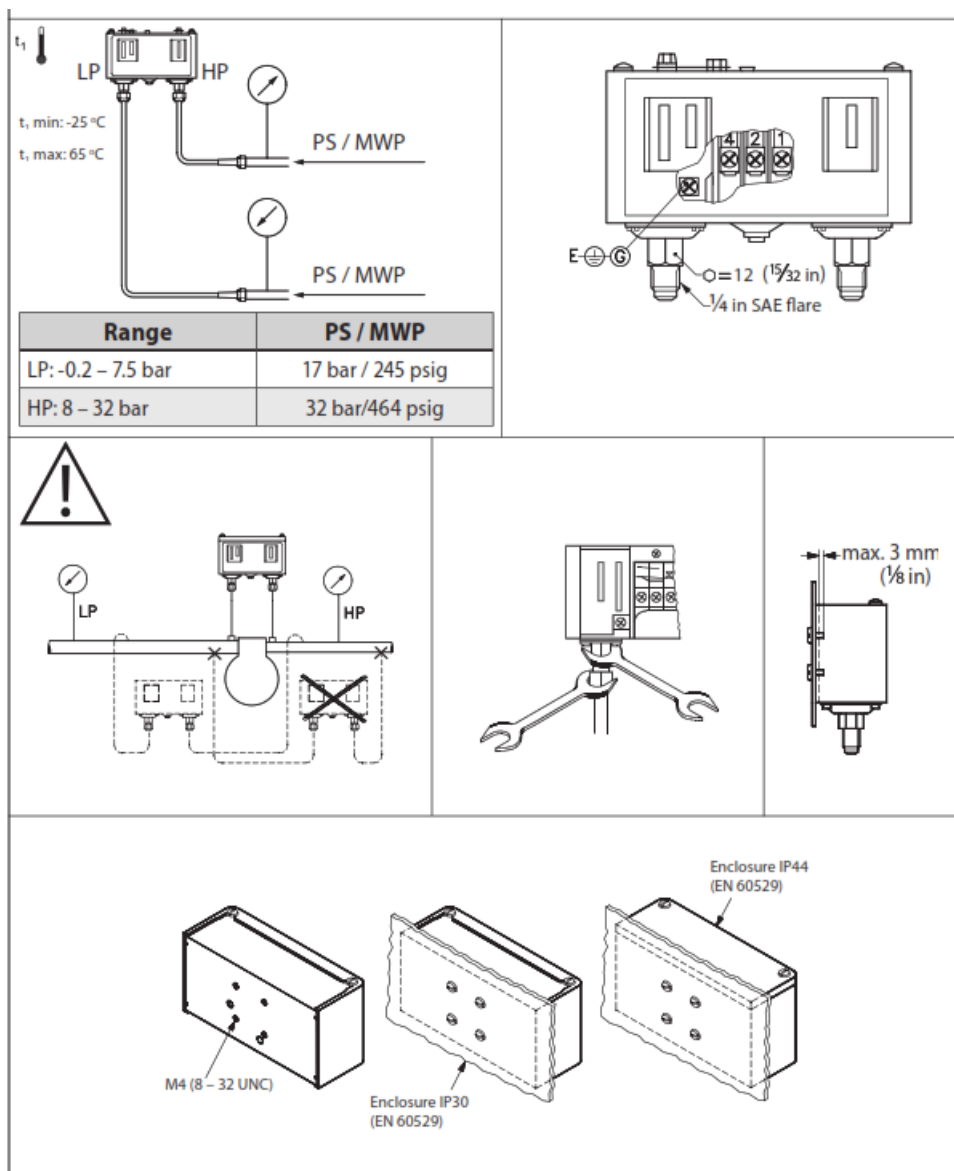
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Installation guide

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Pressure switch

KP 17B, KP 17W and KP 17WB
Refrigerants: R1234yf, R455A, R454C



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

Do never touch live parts with your fingers or with any tool.

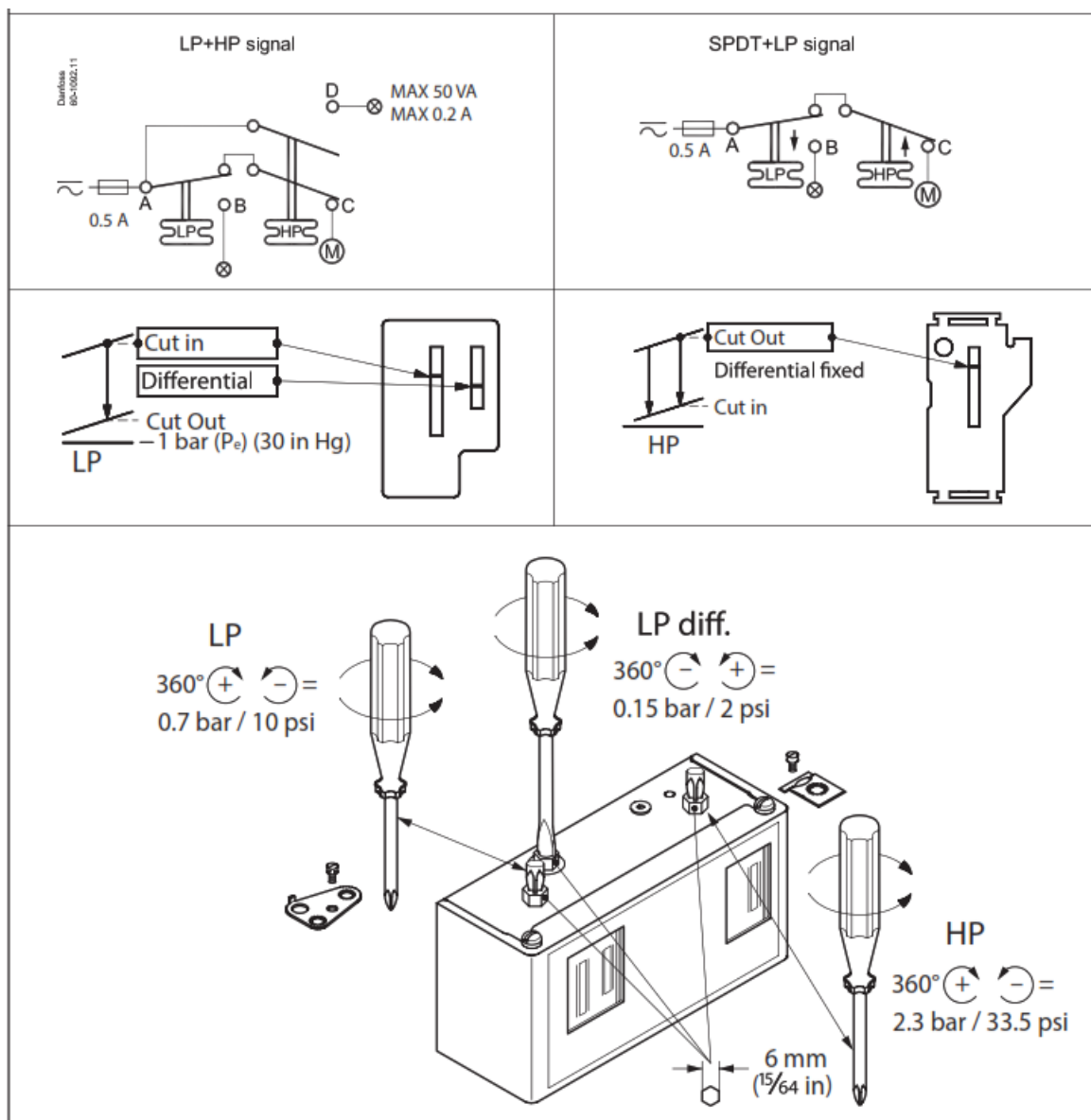
Contact rating (max.)

AC-15: 0.5A, 280 V

Use copper wire only

Tightening torque 20 lb. in. (2.3 Nm)

⚠ Do never exceed the specified 0.5 A contact load.



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- 24:2012, IEC 60335-2-40:2018, IEC 60335-2-89:2019, ISO 5149, EN378-1:2016 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. KP switch must be located in a place where refrigerant cannot stagnate in the case of leakage.
4. Electrostatic discharge protection and Electrical leakage protection shall be surely implemented by grounding or other measures.
5. Only trained personnel are authorized to handle flammable refrigerant systems and may do the installations, maintenance and exchange of the switch by using appropriate tools.
6. It is recommended to regularly check the function of KP switch.
7. The KP pressure switches shall be used as built-in devices that cannot be accessible from outside and protected against mechanical impact.
8. The KPs shall be installed in a water-free environment. In addition, the protection of the KP switches against corrosion shall be taken into consideration when using them in a corrosive environment.

9. Cables shall not be in contact with sharp edges. The cables shall be connected with adequate stress relief in order to prevent pulling forces can be carried through the cable to the terminal.
10. In the event of pressure pulsation in the system, where the 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.
11. 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 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 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, or human injury arising out of the explosion or fire caused by the flammable nature of refrigerant.

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogs descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogs, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to the form, fit or function of the product.

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Documents / Resources

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