

Main **Features**

Ongoing development of new technology and new features is at the very heart of Danfoss. We want our switches to be among the very best on the market – living up to your expectations.

Low differential switching

Danfoss pressure controls and thermostats have either fixed or adjustable differential settings, good readability, and high accuracy of range setting with use of the scale

Designed for various applications Danfoss offers a very broad range

Danfoss offers a very broad range of purpose-specific enclosures and connections

High reliability

All switches feature high accuracy, repeatability and stability over time

Snap action contacts

All contacts are snap-action, maintaining the contact force until

the moment the contact breaks.
Units with gold-plated contacts are ideal for low electrical loads while the AgCdO (silver cadium oxide) contacts are developed for high loads

Wide range of approvals

Danfoss offers a wide range of approvals suited for specific applications and geographical markets

■ High vibration stability

Outstanding vibration stability in switches ensures flawless operation even in heavy-duty applications

Wide pressure ranges

The programme covers working ranges from -0.9 bar up to 46.5 bar

Different sensing elements

As experts in charging technologies, Danfoss offers temperature switches that operate in a wide temperature range

Bellows technology

The lifetime of the pressure control and thermostat is determined by the quality of the bellows. Using advanced technology and manufacturing processes, and being a world leader backed up by more than 70 years of experience in the industry, Danfoss' bellows are manufactured without any welding points, which make them stress free and completely tight

ENGINEERING TOMORROW



A world leader in climate and energy technology

The Danfoss Group operates globally with the primary aims of making modern living possible for our stakeholders and being a leader in refrigeration, heating, power electronics, and mobile hydraulics.

We employ 24,000 people and produce approximately 250,000 components each day at our 76 factories in 25 countries.

We promise leadership in our businesses through reliability, excellence, and innovation – driving true customer satisfaction and solutions within climate and energy.

Extensive experience in all key HVAC/R segments

Danfoss plays a leading role in research, development and production in a wide spectrum of industries, and has been a key player in the HVAC/R field for more than 75 years. Our Refrigeration & Air Conditioning Division designs, produces and markets a comprehensive range of automated solutions and compressors for a wide variety of HVAC/R segments, including

- Heat Pumps
- Commercial Air Conditioning
- Residential Air Conditioning
- Commercial Refrigeration
- Household, Light Commercial and Mobile Refrigeration
- Wholesalers & Installers
- Industrial Refrigeration
- Food Retail



Learn more at www.danfoss.com

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ENGINEERING TOMORROW



Your system will never be more reliable, with a control designed for flawless performance

Wide range of Danfoss Pressure switches and Thermostats



Pressure switches and Thermostats

Danfoss Pressure switches and Thermostats cover many applications within Refrigeration and Air Conditioning and can be used with all low and high pressure fluorinated refrigerants as well as ammonia and hydrocarbons.

fixed or adjustable differential settings, good readability and most difficult operating conditions, to monitor your processes high accuracy of range setting with use of the scale. Using and to protect your equipment. Our production utilises state advanced technology, and being a world leader, Danfoss controls are manufactured with bellows without any welding basis of decades of global experience in Refrigeration and Air points, which make them stress free, completely tight and Conditioning applications. assure a long lifetime.

Ongoing development of new technology is at the very are among the very best on the market – living up to your

The Danfoss Pressure switches and Thermostats feature either Danfoss components are constructed to perform under the of the art processes and every product is designed on the



Choose the		PRESSURE SWITCHES					DIFFERENTIAL PRESSURE SWITCHES		THERMOSTATS				
op so	optimal solution			24	24								
	ТҮРЕ		KP SINGLE	KP DUAL	KPU SINGLE ¹⁾	KPU DUAL ¹⁾	RT	MP	RT	КР	KPU ¹⁾	UT	RT
			 Ideal for starting and stopping refrigeration compressors and fans on air-cooled condensers Offer protection against excessively low suction pressure or excessively high discharge pressure 					Used as safety switches to protect refrigeration compressors against low lubricating oil pressure	Used as protection against differential pressure that is too low or as protection against low lubricating oil pressure in refrigeration compressor.		ety monitoring systems ge or with adsorption charge st protection, defrost control,	Can be used for wide range of applications including cold rooms, beverage coolers, ice cream makers, milk coolers, refrigerated counters, air-conditioning plant and heat recovery systems.	Used for regulation and safety monitoring systems in in general industrial and marine sectors
	Marine Applications		2	2				2	2				2
ons	Industrial Applications		<u>í</u>	<u> </u>			<u>iii</u>	<u>m</u>	<u> </u>	<u> </u>			<u>iii</u>
Applications	Air Conditioning Systems		111	717	717	717		111		717	117	717	
Арр	Commercial Refrigeration			*									
	Food Retail		1	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
		HCFC HFC	•	•	•	•	•	•	•				
	Refrigerants	(Flammable / non-flammable)	•	● 2)	•	•	● 2)	•	•	-	-	-	-
		HC R717 (NH ₃)	•				•	•	•				
	Setting		-0.9 – 42 bar	-0.9 – 32 bar	-0.2 – 42 bar	-0.2 – 42 bar	-0.8 – 30 bar	0.3 – 4.5 bar	0.1 – 11 bar	-50 − 180 °C	-50 − 60 °C	-30 - 40 °C	-60 − 150 °C
ications	Maximum working pressure (PS) / Maximum sensor temp.		46.5 bar	17 bar / 35 bar	46.5 bar	17 bar / 46.5 bar	42 bar	17 bar	42 bar	200 ℃	130 °C	90°C	300 °C
ocal Specifica	Main pressure connectors / sensor types		Flare · Solder · M10 Capillary tube · Cutting ring	Flare · Solder · M10 Capillary tube · Cutting ring	Flare · Capillary tube	Flare · Capillary tube	Flare · G ¹/₂ G ³/₅ with weld nipple · Cutting ring	Flare · Solder · M10 Capillary tube · Cutting ring	Cutting ring \cdot G $^{1}/_{2}$ G $^{3}/_{8}$ with weld nipple	Remote bulb · Room sensor · Capillary tube · Remote air / duct coil	Remote bulb · Room sensor · Capillary tube · Remote air / duct coil	Remote bulb	Remote bulb · Room sensor · Capillary tube · Remote air / duct coil
Fechnocal	Electrical rating AC-3		16 A / 400 V	16 A / 400 V	16 A / 400 V	16 A / 400 V	4 A / 400 V	-	4 A / 400 V	16 A / 400 V	16 A / 400 V	-	4 A / 400 V
Ē	Electrical rating AC-15		10 A / 400 V	10 A / 400 V	10 A / 400 V	10 A / 400 V	3 A / 400 V	2 A / 250 V	3 A / 400 V	10 A / 400 V	10 A / 400 V	2.5 A / 250 V	3 A / 400 V
	Contact material Degree of enclosure		Silver or Gold IP30 · IP44 · P55	Silver or Gold IP30 · IP44 · IP55	Silver IP30	Silver IP30	Silver or Gold IP54 · IP66	Silver IP20	Silver or Gold IP66	Silver or Gold IP30 · IP44	Silver IP30	Silver IP20	Silver or Gold IP66
	Degree or en	Automatic	•	•	•	•	•	•	•	•	•	•	•
	Reset	Manual	•	•	•	•	•	•	•	•	•		
		Convertible		•		•							
	Special approvals		PED · UL · CCC · Marine	PED · UL · CCC · Marine	PED · UL	PED · UL	PED · ATEX · CCC · Marine	UL · CCC · Marine	ATEX · CCC · Marine	UL · CCC · Marine	UL	-	ATEX · CCC · Marine
Accessories	Accessories		Capillary tubes Brackets IP55 Enclosure	Capillary tubes Brackets IP55 Enclosure	Capillary tubes Brackets	Capillary tubes Brackets	Contact system Capillary tubes Setting knob	Capillary tubes Brackets	Capillary tubes Contact system	Brackets Sensor pockets Sensor clamp	Brackets Sensor pockets Sensor clamp	Setting knob Sensor clamp	Setting knob Sensor pockets Sensor clamp Contact system

1) Dedicated for US market • 2) Exlcuding R410A