

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.

1 Low differential switching

Pressure and temperature controls have either fixed or adjustable differential settings, good readability, and high accuracy of range setting with use of the scale.

2 Bellows technology

The lifetime of a pressure and temperature switch is determined by the quality of the bellows. Using advanced technology, and being world leader, Danfoss' bellows are manufactured without any welding points, which makes them stress free and completely tight.

3 Designed for various applications Danfoss offers a very broad range of purpose-specific enclosures and connections.

4 Snap action contacts

All contacts are "snap-action" types, maintaining the contact force until the moment of contact break. Units with gold-plated contacts are ideal for low electrical loads while the silvercadmium contacts are developed for high loads.

15 international approvals

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

The programme covers working ranges from -1 bar up to 400 bar. High reliability All switches feature high accuracy, repeatability and

Different sensing elements

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

High vibration stability

Wide pressure ranges

stability over time.

Outstanding vibration stability in

even in heavy-duty applications.

switches ensures flawless operation



Engineering Tomorrow



Danfoss is a leading global player within the development and production of mechanical and electronic products and controls. Since 1933, our extensive know-how has made modern life easier and we continue to break new ground within our core business areas.

Every day, more than 250,000 items are produced at 70 factories in 25 countries. Impressive as these figures are, we are most proud of the way our dedicated employees apply the highquality components in customer solutions, adding value to the end products. Building strong partnerships is of great importance to us, because it is purely by understanding our customers' needs that we can meet the expectations of tomorrow.

This is also true in Industrial Automation, a Danfoss entity dedicated to focusing on the industrial world of today. Through us, you gain access to the entire Danfoss pool of technologies, with special emphasis on sensors and controls.

We offer safer, more reliable and more efficient solutions in a close cooperation based on firm values.

Learn more at www.danfoss.us/ia

Danfoss LLC, Industrial Automation

11655 Crossroads Circle • Baltimore • MD 21220 E-mail: ia.nam@danfoss.com

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IC.PB.P10.H4.22 / 520B6716 © Danfoss A/S (RC-MDGP / jmn) 2015-03





Switch to a **reliable solution Approved** by the toughest

Wide range of Danfoss Pressure switches and Thermostats



Switch to a reliable supplier

When it comes to demanding applications, Danfoss' know- most challenging situations in a variety of industries and flawless performance day after day and are trusted in the

how and expertise is unsurpassed. Our robust switches offer applications, of which some are mentioned in the following.

Marine and railway

Break down of essential functions in trains and ships due to failures in the controls and safety equipment can be dangerous, very costly and time consuming. These customers therefore choose partners who have a good reputation and superior products to offer, among others:

- Temperature and pressure control and alarm functions in lubrication oil systems – type KPS, CAS and MBC
- Pressure control for air compressors – type MBC, KP and RT
- Essential safety control on trains – type RT and CAS





- Safety approved pressure controls – type BCP and RT
- Reliable alarm and safety functions – type BCP, RT and KP

Autoclaves and sterilisers



- Check of door sealing type KP, BCP and RT
- Pressure controls of steam supply – type KP, RT and BCP
- Control and alarm of pressure in the process chamber – type BCP, KP and RT

Water pumps and air compressors



In water pumps and air compressors it is important to keep a constant pressure and a continuous flow. To ensure this Danfoss offers a range of

- Monitoring and direct start/stop of single or three phase motors – type RT, MBC, CS, CAS and KP/KPI
- Dry run protection of pumps type KP/KPI and RT

Hydraulic equipment and windmills



Danfoss switches are intended for flawless alarm indication, shut down, control and diagnostics in a variety of demanding applications:

- Cooling and lubrication systems for generators and gearboxes – type MBC, KPS, KPI, KP, CAS and RT
- Hydraulic units such as disk brakes and pitch cylinders – type MBC, KPS and RT
- Power packs type MBC and KP

Choose the optimal solution









PRESSURE SWITCHES













DIFFERENTIAL PRESSURE SWITCHES



TEMPERATURE SWITCHES

			1999			-					-	111111			
	ТҮРЕ	KP/KPI	ВСР	RT	МВС	KPS	CAS	CS	MBC	CAS	RT	КР	RT	МВС	KPS
	Marine and railway equipment			##	# #	##	# #		##	##	₺ #			# #	# #
	Industrial boilers and boiler room equipment	4	4	4							4	4	4		
ments	Autoclaves and sterilisers	0:	0:	() :							O:	0:	0:		
Seg	Water pumps and air compressors	€ €		8 1 1 1				€ 45 € 35	€ €	€ €	€ > € >	€ 6 5	5 6 5	€ 6 5	
	Hydraulic equipment	8		8	8	8	9		8			8		8	
	Windmills				*	-	*		-			-		-	*
	Setting range	-0.2 – 28 bar	0 – 40 bar	1 – 30 bar	-0.2 – 400 bar	0 – 60 bar	0 – 60 bar	2 – 20 bar	0.3 – 5 bar	0.2 – 2.5 bar	0 – 11 bar	0 − 150 °C	-60 − 300 °C	-10 − 200 °C	-10 − 200 °C
	Contact system	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	TPST and SPST	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT
	Electrical rating AC-3	16 / 6 A, 400 V	-	4 A, 400 V	-	6 A, 400 V	-	12 A, 400 V	-	-	4 A, 400 V	16 A, 400 V	4 A, 400 V	-	6 A, 400 V
	Electrical rating AC-15	10 / 4 A, 400 V	1 A, 250 V	3 A, 400 V	0.5 A, 250 V	4 A, 400 V	0.1 A, 220 V	-	0.5 A, 250 V	0.1 A, 220 V	3 A, 400 V	10 A, 400 V	3 A, 400 V	0.5 A, 250 V	4 A, 400 V
	Electrical connection	Screw terminals	DIN plug	Screw terminals	DIN plug	Screw terminals	Screw terminals	Screw terminals	DIN plug	Screw terminals	Screw terminals	Screw terminals	Screw terminals	DIN plug	Screw terminals
cteristics	Contact material	Silver or Gold	Gold	Silver or Gold	Silver	Gold	Silver	Silver	Silver	Silver	Silver or Gold	Silver	Silver or Gold	Silver	Gold
<u>ro</u>	Differential	Adjustable	Adjustable	Adjustable	Fixed	Adjustable	Fixed	Adjustable	Fixed	Fixed	Fixed	Adjustable	Adjustable	Fixed	Adjustable
	Special approvals	Marine	TÜV	Marine, TÜV	Marine	Marine, UL	Marine	-	Marine	Marine	Marine	Marine, UL	Marine	Marine	Marine, UL
	Degree of enclosure	IP30, IP44 or IP55	IP65	IP66 or IP54	IP65	IP67	IP67	IP43 or IP55	IP65	IP67	IP66	IP30, IP44 or IP55	IP66 or IP54	IP65	IP67
	Design	Вох	Box industrial	Box industrial	Compact	Box heavy duty	Box heavy duty	Вох	Compact	Box heavy duty	Box industrial	Вох	Box industrial	Compact	Box heavy duty
	Adjustable neutral zone			Yes							Yes		Yes		