

Product overview | Switches

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

Wide range of Danfoss Pressure switches and Thermostats.

**15**

International  
approvals ensures  
that you build in  
approved quality in  
your system



# Switches overview



Pressure switches

Type	Standard		KP/KPI	BCP	RT	MBC	KPS	
Segments	Marine and railway equipment				✓	✓	✓	
	Industrial boilers and boiler room equipment		✓	✓	✓			
	Autoclaves and sterilisers		✓	✓	✓			
	Water pumps and air compressors		✓		✓			
	Hydraulic equipment		✓		✓	✓	✓	
	Windmills					✓	✓	
Characteristics	Setting range		-0.2 – 28 bar	0 – 40 bar	1 – 30 bar	-0.2 – 400 bar	0 – 60 bar	
	Contact system		SPDT	SPDT	SPDT	SPDT	SPDT	
	Electrical rating	AC-3	16 / 6 A, 400 V		4 A, 400 V		6 A, 400 V	
		AC-15	10 / 4 A, 400 V	1 A, 250 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	
	Contact material		Silver or Gold	Gold	Silver or Gold	Silver	Gold	
	Differential		Adjustable	Adjustable	Adjustable	Fixed	Adjustable	
	Special approvals		Marine	TÜV	Marine, TÜV	Marine	Marine, UL	
	Degree of enclosure		IP30, IP44 or IP55	IP65	IP66 or IP54	IP65	IP67	
	Design		Box	Box industrial	Box industrial	Compact	Box heavy duty	
	Adjustable neutral zone				✓			

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			Differential pressure switches			Temperature switches			
	CAS	CS	MBC	CAS	RT	KP	RT	MBC	KPS
	✓		✓	✓	✓			✓	✓
					✓	✓	✓		
					✓	✓	✓		
		✓	✓	✓	✓	✓	✓	✓	
	✓		✓			✓		✓	
	✓		✓			✓		✓	✓
	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
	SPDT	TPST and SPST	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT	SPDT
		12 A, 400 V			4 A, 400 V	16 A, 400 V	4 A, 400 V		6 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
	Screw terminals	Screw terminals	DIN plug	Screw terminals	Screw terminals	Screw terminals	Screw terminals	DIN plug	Screw terminals
	Silver	Silver	Silver	Silver	Silver or Gold	Silver	Silver or Gold	Silver	Gold
	Fixed	Adjustable	Fixed	Fixed	Fixed	Adjustable	Adjustable	Fixed	Adjustable
	Marine		Marine	Marine	Marine	Marine, UL	Marine	Marine	Marine, UL
	IP67	IP43 or IP55	IP65	IP67	IP66	IP30, IP44 or IP55	IP66 or IP54	IP65	IP67
	Box heavy duty	Box	Compact	Box heavy duty	Box industrial	Box	Box industrial	Compact	Box heavy duty
					✓		✓		

# Switch to a reliable supplier

When it comes to demanding applications, our know-how and expertise is unsurpassed. Danfoss' robust switches offer flawless performance day after day—and are trusted as durable and reliable solutions in some of the most challenging environments across a variety of industries and applications.



## Marine and railway equipment

Our control solutions help prevent dangerous, costly, and time-consuming failures in trains and ships.

- Temperature and pressure control and alarms in lubrication systems
- Pressure control for air compressors
- Essential safety control for trains



## Industrial boilers and boiler room equipment

Rely on the accurate monitoring of steam and hot water installations, heat exchangers, and water treatment equipment.

- Safety-approved controls
- Reliable alarms and safety functions



## Autoclaves and sterilizers

Get high repeatability and trustworthy performance for the precise control and safety of temperature and pressure in the autoclave process.

- Process chamber pressure control and alarm
- Steam supply pressure control
- Door sealing check



## Water pumps and air compressors

Keep a consistent pressure and continuous flow in water pumps and air compressors.

- Monitoring and direct start/stop or single or three-phase motors
- Dry-run pump protection



## Hydraulic equipment and windturbine

Get precise alarm indication, shut down, control, and diagnostics in a variety of intense and demanding application environments.

- Cooling and lubrication systems for generators and gearboxes
- Hydraulic unit, e.g., disk brakes and pitch cylinders
- Power packs

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