barcontrol

THE WATCH MAN

ON ALERT, NO EXEPTION

YOUR NEEDS

Do your fire suppression systems extinguish fires fast and effective, before they become too dangerous? For this life-saving system you need to guarantee operational readiness, under all circumstances.

Reliable pressure monitoring of the extinguishing agent or the propellant is essential to achieving that goal. Loss of pressure must be detected, even under extreme temperatures, shocks and vibrations.

OUR SOLUTION

Our range of pressure switches for fire suppression applications are designed from the ground up for the most extreme applications. Featuring:

- Leakage test for every device / Tightness down to -55°C and lower
- Valve opener or standard fluid connections
- High corrosion resistance of all used materials
- Venting element against temperature influence on the set-point

suitable for various types of vehicles

designed for extreme longevity

operation in rough environmental conditions

MAIN FEATURES

LEAKAGE RATE

The leakage rate is of critical importance in this specific application field. Our switches yield leakage rates well above 5×E-6. Existing customers confirm this consistently with their own internal tests across a broad temperature range. We are confident that we can also meet your leakage rate requirments.

TEMPERATURE RANGES

The temperature specification of our switches range from -55 to +100°C degrees, depending on the type of switch. That means, the switch remains tights across the entire temperature range.

ROBUST DESIGN

We use steel housings with a zinc-nickel coating for high corrosion resistance. Stainless steel housings are optionally available. The switches were tested in accordance with the railway and military standards in shock and vibration tests for their suitability for mobile applications.

SNAP ACTION SWITCH

The snap action microswitch is crucial to prevent incorrect switching, e.g. through shock and vibration. It also avoids arcing due to pressure changes caused by changing ambient temperature.

OPTIONAL FEATURES

STAINLESS STEEL MEMBRANE

Stainless Steel is used instead of elastomer or rubber to ensure reliable performance across a wide temperature range. This is particularly important when operating at extremely low temperatures.

CABLE OUTLET WITH PRESSURE BALANCE

The cable outlet is completely potted. A pressure compensation element avoids pressure building up in the switch as temperature changes - which would influence the switching point. Many other connections are available.

FLUID PORT e.g. SINTERED FILTER

To avoid leakages during switch installation, the fluid port can be equipped with a sintered filter. You can also choose between different thread types (1/8 NPT, M10×1, G 1/4).

PRIVATE LABEL

For resellers and OEMs we offer individual branding with your logo, your part number, barcode, QR code and more. Please contact us for your individual branding needs.

MODEL OVERVIEW

The table below shows key characteristics of the different switch models. For full specifications, please refer to our data-sheets: **www.bar-control.de/en/products/data-sheets.html**

MODEL		PDL	PDC	FDL	FDC	HDL	HDC
Wrench size	SW 24	✓		✓		✓	
	SW 27		✓		✓		✓
Set-point	up to 16 bar	✓	✓				
(pre-adjusted)	up to 20 bar			✓	✓		
	up to 320 bar					✓	✓
Max. System pressure	20 bar	✓	✓				
(recommended)	60 bar			✓	✓		
	350 bar					✓	✓
Function	Normally open	✓		✓		✓	
	Normally closed	✓		✓		✓	
	SPDT	✓	✓	✓	✓	✓	✓
Voltage	max. 48 V	✓		✓		✓	
	max. 250 V		✓		✓		✓
Electrical outlet	flat connector	✓		✓		✓	
	cable output	✓		✓		✓	
	L-plug		✓		✓		✓
Operating	NBR -40 to +80°C	✓	✓			✓	✓
temperature	FVMQ -40 to +100°C	✓	✓			✓	✓
	EPDM -40 to +100°C	✓	✓			✓	✓
	stainless steel -55 to +100°C			✓	✓		

UNDER PRESSURE

WE WORK BEST

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QUALITY MANAGEMENT ISO 9001:2015

MADE IN GERMANY

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