

## Switching and/or continuous recording of process temperatures

# MEDIA-CONTACTING TEMPERATURE SENSORS

Continuous monitoring of process media on machines and equipment contributes greatly to process security. Values that need to be maintained are pressure, level and temperature.

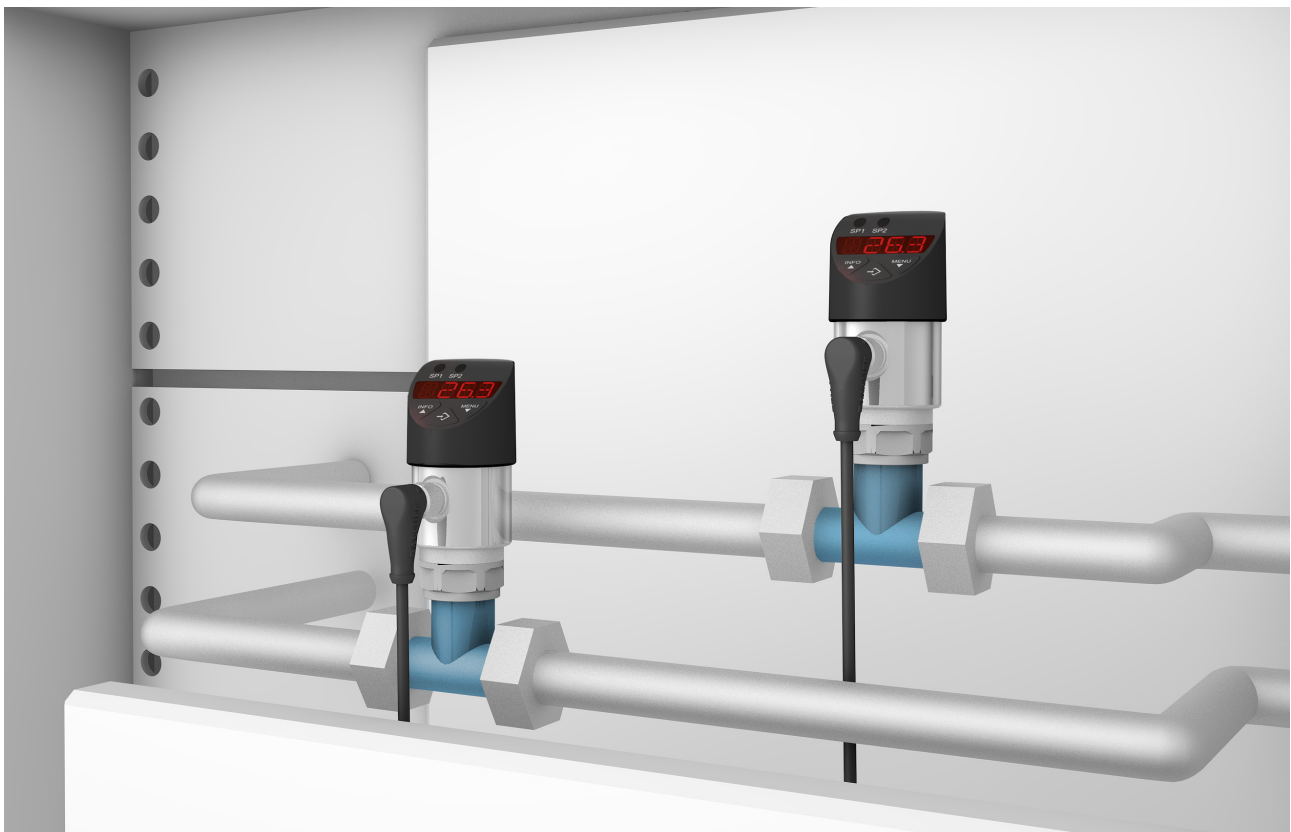
For example, in a hydraulic system you want to monitor the temperature of the hydraulic fluid. You can do this reliably using our media-contacting temperature sensors.

Critical process conditions such as a temperature limit can be controlled directly via the switching output. Monitoring the temperature within the hydraulic loop guarantees correct fluid viscosity and thereby the best performance of your machine. An analog output provides continuous measurement results.

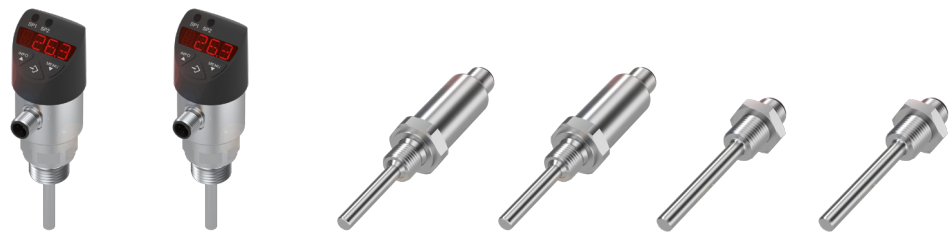
Our temperature sensors also stand out when it comes to monitoring the cooling water, lubricants and compressed air, making them ideal for a variety of applications.

### Features

- Temperature measurement: directly in liquid or gaseous media
- Interfaces: analog signals and switching points
- Rugged M12 connector for ease of integration
- Version with rotatable, easy to read display: flexible installation and convenient operation
- Versions without display: compact form factor and high vibration resistance



MEDIA-CONTACTING TEMPERATURE SENSORS



2 × PNP	Installation length 25 mm	BFT001H	BFT001L				
	Installation length 50 mm	BFT001J	BFT001M				
	Installation length 100 mm	BFT001K	BFT001N				
1 × PNP + 4...20 mA	Installation length 25 mm	BFT0012	BFT0018				
	Installation length 50 mm	BFT0013	BFT0019				
	Installation length 100 mm	BFT0014	BFT001A				
1 × PNP + 0...10 V	Installation length 25 mm	BFT0015	BFT001C				
	Installation length 50 mm	BFT0016	BFT001E				
	Installation length 100 mm	BFT0017	BFT001F				
4...20 mA	Installation length 25 mm			BFT0005	BFT0008		
	Installation length 50 mm			BFT0006	BFT0009		
	Installation length 100 mm			BFT0007	BFT000A		
Resistor	Installation length 25 mm					BFT0001	BFT0003
	Installation length 50 mm					BFT0002	BFT0004
Version of temperature sensor	With display	With display	Transmitter	Transmitter	Probe	Probe	
Operating voltage	15...35 V DC	15...35 V DC	10...30 V DC	10...30 V DC			
Measuring range	-20...+80 °C	-20...+80 °C	-30...+150 °C	-30...+150 °C	-50...+150 °C	-50...+150 °C	
Process connection	G½"	NPT½"	G¼"	NPT¼"	G¼"	NPT¼"	
Pressure rating max.	150 bar	150 bar	270 bar	270 bar	50 bar	50 bar	
Protection degree	IP65, IP67	IP65, IP67	IP67, IP69, IP69K	IP67, IP69, IP69K	IP66, IP67	IP66, IP67	
Approval/conformity	CE, cULus	CE, cULus	CE, cULus	CE, cULus	CE	CE	
Connection	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	

ACCESSORIES



	BNI00AJ	BAE00TR
Description	IO-Link sensor/actuator hubs, 8 × analog voltage/current/temperature	Heartbeat power supply with IO-Link, 60 W, 24 V, 2.5 A, IP20

CONNECTORS



	BCC032K	BCC032L	BCC032M
Description	M12 female, 5-pole, straight, 2 m cable PUR, number of conductors 4, IP68, shielded	M12 female, 5-pole, straight, 5 m cable PUR, number of conductors 4, IP68, shielded	M12 female, 5-pole, straight, 10 m cable PUR, number of conductors 4, IP68, shielded