Proxitron

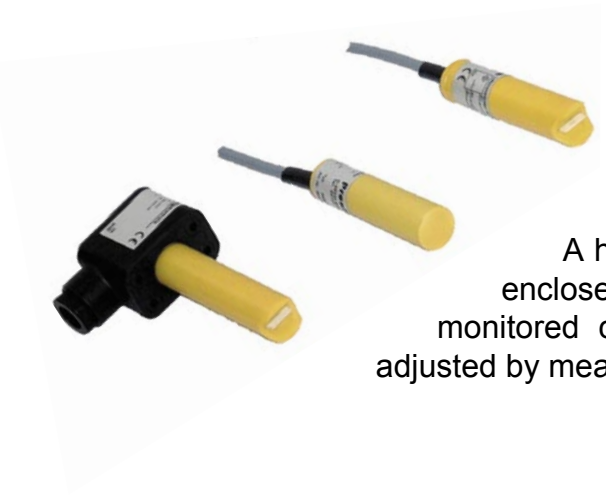
SENSOREN FÜR AUTOMATION

Flow Sensors

with ProxiTeach teach function

Flow monitoring of liquid and gaseous media

Flow sensors for gaseous media



Compact sensor for monitoring aeriform and gaseous flows. The air flow monitor is installed as a stationary sensor with a supplied flange or pressure-proof with a M32 fitting in the flow to be monitored. The calorimetric device with integrated evaluation electronics enables maintenance-free operation. A housing with an outstanding ceramic sensor and a smoothly enclosed plastic housing are supplied. The flow limit value to be monitored can be adjusted with a potentiometer or is automatically adjusted by means of the teach-in process in proportion to the existing flow.

Ub	Connection	Housing	Output	Adjustment	Type
24 V DC	Cable	Ø 20 mm	PNP normally open	Poti	FKM 230.13 G
		Ø 20 mm	PNP normally open	ProxiTeach*	FKM 231.13 G
		Ø 20 mm	PNP normally closed	Poti	FKM 230.12 G
		Ø 20 mm	PNP normally closed	ProxiTeach*	FKM 231.12 G
		Ø 20 mm	NPN normally open	Poti	FKM 230.11 G
		Ø 20 mm	NPN normally closed	Poti	FKM 230.10 G
		Ø 20 mm	Analog 0 - 10 V		FKM 230.19
		Ø 20 mm	Analog 0 - 20 mA		FKM 230.190
		Ø 20 mm	Analog 4 - 20 mA		FKM 230.194
	M12 plug connector	Ø 20 mm	PNP normally open	Poti	FKM 230.13 G S4
		Ø 20 mm	PNP normally open	ProxiTeach*	FKM 231.13 G S4
		Ø 20 mm	PNP normally closed	Poti	FKM 230.12 G S4
		Ø 20 mm	PNP normally closed	ProxiTeach*	FKM 231.12 G S4
		Ø 20 mm	NPN normally open	Poti	FKM 230.11 G S4
		Ø 20 mm	NPN normally closed	Poti	FKM 230.10 G S4
		Ø 20 mm	Analog 0 - 10 V		FKM 230.19 S4
		Ø 20 mm	Analog 0 - 20 mA		FKM 230.190 S4
		Ø 20 mm	Analog 4 - 20 mA		FKM 230.194 S4
	Terminal chamber	Ø 20 mm	PNP normally open	Poti	FKM 130.13 GD
		Ø 20 mm	PNP normally closed	Poti	FKM 130.12 GD
		Ø 20 mm	NPN normally open	Poti	FKM 130.11 GD
		Ø 20 mm	NPN normally closed	Poti	FKM 130.10 GD
115 V AC	Cable	Ø 20 mm	Normally open	Poti	FKM 130.53
		Ø 20 mm	Normally closed	Poti	FKM 130.52
	Terminal chamber	Ø 20 mm	Normally open	Poti	FKM 130.53 D
		Ø 20 mm	Normally closed	Poti	FKM 130.52 D
230 V AC	Cable	Ø 20 mm	Normally open	Poti	FKM 130.83
		Ø 20 mm	Normally closed	Poti	FKM 130.82
	Terminal chamber	Ø 20 mm	Normally open	Poti	FKM 130.83 D
		Ø 20 mm	Normally closed	Poti	FKM 130.82 D

*ProxiTeach is a registered trademark for the easy-to-operate adjustment system developed by Proxitron.

Flow sensors
for liquid media

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The flow sensor monitors liquid media and signals flow stoppage or deviation from freely adjustable flow speed. The sensor head is made of sturdy stainless steel and is available in different thread designs. The calorimetric measuring principle with integrated electronics enables easy start-up by means of the teach-in function and reliable condition sensing with maintenance-free operation. A model for the connection of external sensor heads offers an additional temperature monitoring function.

Ub	Connection	Sensor	Output	Adjustment	Type
24 V DC	Cable	G 1/4“	PNP normally open+Normally closed	ProxiTeach*	FKC 604.18 G
		NPT 1/4“	PNP normally open+Normally closed	ProxiTeach*	FKCN 604.18 G
		G 1/2“	PNP normally open+Normally closed	ProxiTeach*	FKE 604.18 G
		NPT 1/2“	PNP normally open+Normally closed	ProxiTeach*	FKEN 604.18 G
		G 3/4“	PNP normally open+Normally closed	ProxiTeach*	FKF 604.18 G
		NPT 3/4“	PNP normally open+Normally closed	ProxiTeach*	FKFN 604.18 G
	M12 plug connector	G 1/4“	PNP normally open+Normally closed	ProxiTeach*	FKC 604.18 G S4
		NPT 1/4“	PNP normally open+Normally closed	ProxiTeach*	FKCN 604.18 G S4
		G 1/2“	PNP normally open+Normally closed	ProxiTeach*	FKE 604.18 G S4
		NPT 1/2“	PNP normally open+Normally closed	ProxiTeach*	FKEN 604.18 G S4
		G 3/4“	PNP normally open+Normally closed	ProxiTeach*	FKF 604.18 G S4
		NPT 3/4“	PNP normally open+Normally closed	ProxiTeach*	FKFN 604.18 G S4
115 V AC	Cable	G 1/4“	Normally open/Normally closed	Poti	FKC 704.56 G
		NPT 1/4“	Normally open/Normally closed	Poti	FKCN 704.56 G
		G 1/2“	Normally open/Normally closed	Poti	FKE 704.56 G
		NPT 1/2“	Normally open/Normally closed	Poti	FKEN 704.56 G
		G 3/4“	Normally open/Normally closed	Poti	FKF 704.56 G
		NPT 3/4“	Normally open/Normally closed	Poti	FKFN 704.56 G
230 V AC	Cable	G 1/4“	Normally open/Normally closed	Poti	FKC 704.86 G
		NPT 1/4“	Normally open/Normally closed	Poti	FKCN 704.86 G
		G 1/2“	Normally open/Normally closed	Poti	FKE 704.86 G
		NPT 1/2“	Normally open/Normally closed	Poti	FKEN 704.86 G
		G 3/4“	Normally open/Normally closed	Poti	FKF 704.86 G
		NPT 3/4“	Normally open/Normally closed	Poti	FKFN 704.86 G
115/230 V AC, 24 V DC	Terminals	Evaluation unit	Relay change-over contact	Poti	FSP 604.6R
	M12 plug connector	Sensor head G 1/4“	Matching sensor heads for evaluation unit FSP 604		FAC 601
		Sensor head NPT 1/4“			FACN 601
		Sensor head G 1/2“			FAE 601
		Sensor head NPT 1/2“			FAEN 601
		Sensor head G 3/4“			FAF 601
		Sensor head NPT 3/4“			FAFN 601
		Matching connection cable, length 5 m, between sensor head and evaluation unit FSP 604			ST 041/4-5

Flow sensors
for liquid and gaseous media

Proxitron flow sensors control the flow speed of liquid and gaseous media. In an enclosed housing a heat resistance generates a low temperature increase. The cooling effect of the flow is evaluated electronically. The calorimetric measuring principle enables wear-free and low-maintenance operation. Different designs offer an optimum technical and economic solution for many industrial applications.

Models with different cable lengths as well as customized variants are available.

We recommend special designs with separate sensor heads for applications with fast changes of temperature.

Please specify your requirements.

We would be pleased to advise you!

Applications

Coolant and lubricant flow in steel and rolling mills

Ventilator shutdown and filter soiling in air conditioning and ventilation technology

Suction devices in sawmills and wood working plants

Bearing cooling systems of drive motors

Inlets and outlets of containers and mixing plants.

Oil and water mixtures for roller conveyor lubrication

Irrigation plants in horticulture and in greenhouses.

Valve positions in distribution systems

Pumps in sewage plants

General Data

	Gaseous media	Liquid media
Adjustable flow limit value	0 - 10 m/s	30 - 3000 mm/s
Flow range, analog	0 - 16 m/s	
Medium temperature	0 - 60 °C	0 - 60 °C
Medium	Air, gaseous	Water, hydraulic oil
Continuous current load AC/DC	0,5 - 300 mA / 0 - 200 mA	0,5 - 400 mA / 0 - 400 mA

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Product range

Inductive Proximity Switches		Further Sensors	
WG 210	**Sensing distance < 20 mm**	WG 100	**Capacitive sensors**
WG 220	**Sensing distance 20-60 mm**	WG 510	**Piros light barriers**
WG 230	**Sensing distance 60-120 mm**	WG 610	**Piros infrared sensors**
WG 240	**Sensor strips**	WG 620	**Piros for fibre optic cables**
WG 241	**Surface sensors**	WG 630	**Piros infrared pyrometers**
WG 250	**Ring sensors**	WG 800	**Flow sensors, air**
WG 260	**Inductive analog sensors and evaluation electronics**	WG 830	**Flow sensors, liquid**

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