EGE ELEKTRONIK

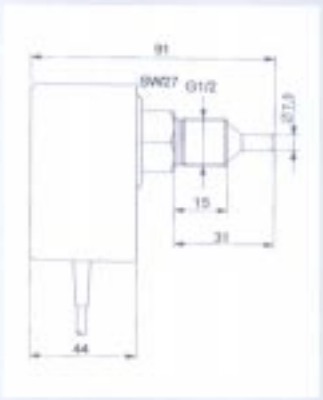
FLOW CONTROLLER

Compact Model • Series 400

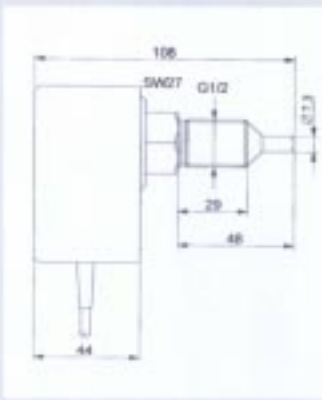
Monitoring equipment for fluids

- Self-contained sensor
- One-piece special steel sensor
- LED-Line
- Pressure-tight up to 100 bar
- Resistive PA-housing

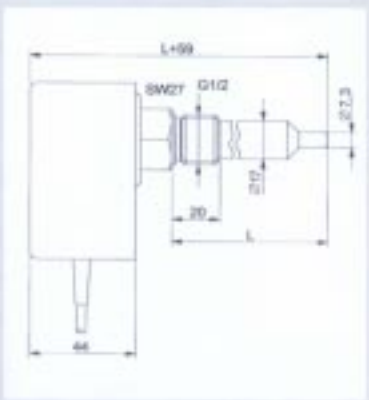
SN 450...



SN 450/1...



SN 450/2... SN 450/3...



TYPE	ID-NO.	DESIGN			
SN 450-A4-WR1	P11113	Compact model	G1/2 stainless steel A4		115 V AC
SN 450-A4-WR2	P11114	Compact model	G1/2 stainless steel A4		230 V AC
SN 450-A4-GR	P11115	Compact model	G1/2 stainless steel A4		24 V DC
SN 450-A4-GRS	P11116	Compact model	G1/2 stainless steel A4	Plug	24 V DC
SN 450/1-A4-WR1	P11074	Compact model	G1/2 stainless steel A4		115 V AC
SN 450/1-A4-WR2	P11076	Compact model	G1/2 stainless steel A4		230 V AC
SN 450/1-A4-GR	P11078	Compact model	G1/2 stainless steel A4		24 V DC
SN 450/1-A4-GRS	P11086	Compact model	G1/2 stainless steel A4	Plug	24 V DC
SN 450/2-A4-WR1	P11079	Compact model	G1/2 stainless steel A4	L= 80 mm	115 V AC
SN 450/2-A4-WR2	P11080	Compact model	G1/2 stainless steel A4	L= 80 mm	230 V AC
SN 450/2-A4-GR	P11081	Compact model	G1/2 stainless steel A4	L= 80 mm	24 V DC
SN 450/3-A4-WR1	P11082	Compact model	G1/2 stainless steel A4	L= 120 mm	115 V AC
SN 450/3-A4-WR2	P11083	Compact model	G1/2 stainless steel A4	L= 120 mm	230 V AC
SN 450/3-A4-GR	P11084	Compact model	G1/2 stainless steel A4	L= 120 mm	24 V DC

Note

The sensors are made of special steel A2 (AISI 303) for normal use. Material A4 (AISI 316Ti) should be used for aggressive media. In the case of pressures higher than 15 bar a recess must be incorporated into fitting which will keep the delivered flat gasket in the right position. When the thread is tightened the gasket must be compressed less than 30%.

Different designs, materials or electrical data are available on request.

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Technical Data

	SN 450...GR	SN 450...GRS	SN 450...WR1	SN 450...WR2
Supply voltage	24 V DC	24 V DC	115 V AC	230 V AC
Tolerance	± 20 %	± 20 %	± 15 %	± 15 %
Current consumption	80 mA	80 mA	60 mA	30 mA
Output	relay / change over	relay / NO	relay / change over	relay / change over
Switching voltage max.	250 V AC / 60 V DC	250 V AC / 60 V DC	250 V AC / 60 V DC	250 V AC / 60 V DC
Switching current max.	4 A AC / 4 A DC	2 A AC / 2 A DC	4 A AC / 4 A DC	4 A AC / 4 A DC
Switching power max.	1000 VA / 60 W	500 VA / 50 W	1000 VA / 60 W	1000 VA / 60 W
Ambient temperature	-20...70 °C	-20...70 °C	-20...70 °C	-20...70 °C
Detection range				
Water	1...150 cm/s	1...150 cm/s	1...150 cm/s	1...150 cm/s
Oil	3...300 cm/s	3...300 cm/s	3...300 cm/s	3...300 cm/s
Temperature range	-20...80 °C	-20...80 °C	-20...80 °C	-20...80 °C
Temperature gradient	250 °C/min	250 °C/min	250 °C/min	250 °C/min
Temperature step time	typ. 12 s	typ. 12 s	typ. 12 s	typ. 12 s
Standby time	typ. 8 s (2...15 s)	typ. 8 s (2...15 s)	typ. 8 s (2...15 s)	typ. 8 s (2...15 s)
Switch-on delay	typ. 2 s (1...13 s)	typ. 2 s (1...13 s)	typ. 2 s (1...13 s)	typ. 2 s (1...13 s)
Switch-off delay	typ. 2 s (1...15 s)	typ. 2 s (1...15 s)	typ. 2 s (1...15 s)	typ. 2 s (1...15 s)
Compressive strength	100 bar	100 bar	100 bar	100 bar
Material sensor	A4: 1.4571 (AISI 316Ti)	A4: 1.4571 (AISI 316Ti)	A4: 1.4571 (AISI 316Ti)	A4: 1.4571 (AISI 316Ti)
Material housing	PA	PA	PA	PA
Protection EN 60529	IP 67	IP 67	IP 67	IP 67
Connection	Fixed cable 5 x 0,5 mm² 2 m PVC	Universal-Plugsystem M12	Fixed cable 5 x 0,5 mm² 2 m PVC	Fixed cable 5 x 0,5 mm² 2 m PVC

LED-Display

red	Indicates flow off or flow below set threshold value. Relay is not activated.
yellow	Indicates the flow has just exceed the set threshold value. Relay is activated.
green	Indicates the flow has exceed the set threshold value between 30% and 100%. Flow relay is activated.

Connection

Code: BK = black BN = brown BU = blue GN = green YE = yellow GY = grey PK = pink WH = white