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Calorimetric flow sensor for liquids SW-600-...-IL

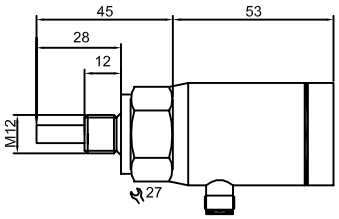
- **Analog output 4(0) - 20 mA**
- **Two switching outputs**
- **Microprocessor controlled**
- **Programmable**

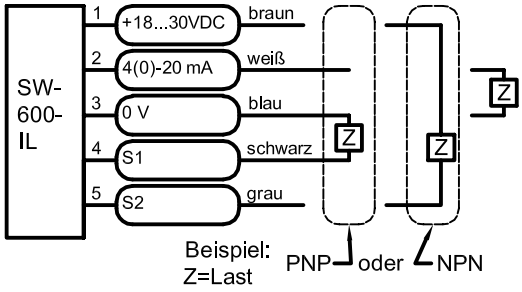
Certificate: CE

Technical data

Measuring range , dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)
Repeat accuracy	1 %
Switching point, Hysteresis	adjustable

Type	**SW-600-M12/28-IL**
Art.-No.	**544 100**
Process connection	**M12 x 1**
Operating voltage (U_B)	18...30 V DC
Permitted residual ripple max.	10 %
Analog output	4(0) - 20mA, 2(0) - 10V with 500 Ohm
Switching outputs	PNP, NPN max 300 mA in total
No-load current (I_0)	typ. 60 mA
Response- time	typ. 2 s
Temperature gradient	typ. 4 K/s
Operating pressure	100 bar
Permitted ambient temperature	0...+70°C
Display	LCD Display (32 x 16 pixel), LED red
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1, 5pole
Material in contact with medium	stainless steel no. 1.4571 (VA)
Housing	stainless steel no. 1.4504 (VA)
Glass	mineral glass tempered
Magnet	Cobalt Samarium





Calorimetric flow sensor for liquids SW-600-...-IL(-02)

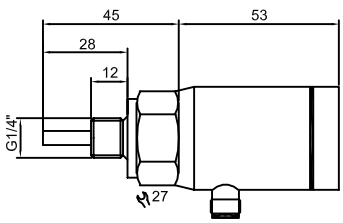
- **Analog output 4(0) - 20 mA**
- **Two switching outputs**
- **Microprocessor controlled**
- **Programmable**

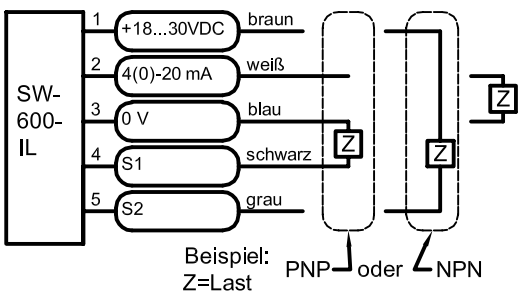
Certificate: CE

Technical data

Measuring range , dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)	1 - 500 cm/s (H_2O: 300 cm/s)
Repeat accuracy	1 %	1 %
Switching point, Hysteresis	adjustable	adjustable

Type	**SW-600-G1/4''/28-IL**	**SW-600-G1/4''/28-IL-02**
Art.-No.	**544 120**	**544 130**
Process connection	**G1/4''**	**G1/4''**
Operating voltage (U_B)	18...30 V DC	
Permitted residual ripple max.	10 %	
Analog output	4(0) - 20mA, 2(0) - 10V with 500 Ohm	
Switching outputs	PNP, NPN max 300 mA in total	
No-load current (I_o)	typ. 60 mA	
Response- time	typ. 2 s	
Temperature gradient	typ. 4 K/s	
Operating pressure	100 bar	
Permitted ambient temperature	0...+70°C	
Display	LCD Display (32 x 16 pixel), LED red	
Degree of protection IEC 529	IP 67	
Connection	plug-in connector M12 x 1, 5pole	
Material in contact with medium	stainless steel no. 1.4571 (VA)	
Housing	stainless steel no. 1.4504 (VA)	
Glass	mineral glass tempered	
Magnet	Cobalt Samarium	





Calorimetric flow sensor for liquids SW-600-...-IL with PTFE-coated sensor tip

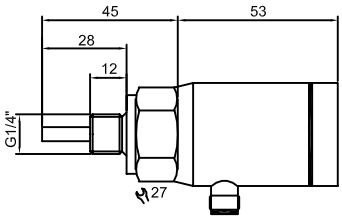
- **Nonstick PTFE coating**
- **Analog output 4(0) - 20 mA**
- **Two switching outputs**
- **Microprocessor controlled**
- **Programmable**

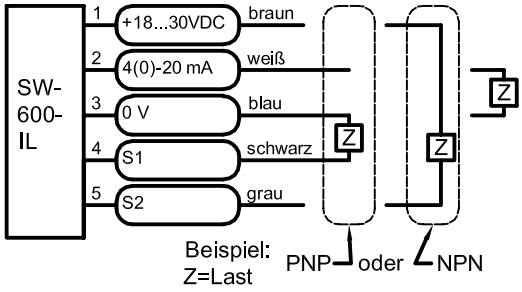
Certificate: CE

Technical data

Measuring range , dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)
Repeat accuracy	1 %
Switching point, Hysteresis	adjustable

Type	**SW-600-G1/4''/28-IL with PTFE-coated sensor tip**
Art.-No.	**544 121**
Process connection	**G1/4''**
Operating voltage (U_B)	18...30 V DC
Permitted residual ripple max.	10 %
Analog output	4(0) - 20mA, 2(0) - 10V with 500 Ohm
Switching outputs	PNP, NPN max 300 mA in total
No-load current (I_0)	typ. 60 mA
Response- time	typ. 2 s
Temperature gradient	typ. 4 K/s
Operating pressure	100 bar
Permitted ambient temperature	0...+70°C
Display	LCD Display (32 x 16 pixel), LED red
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1, 5pole
Material in contact with medium	stainless steel no. 1.4571 (VA), PTFE covered
Housing	stainless steel no. 1.4504 (VA)
Glass	mineral glass tempered
Magnet	Cobalt Samarium





Calorimetric flow sensor for liquids SW-600-...-IL(-02)

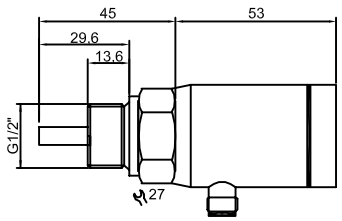
- **Analog output 4(0) - 20 mA**
- **Two switching outputs**
- **Microprocessor controlled**
- **Programmable**

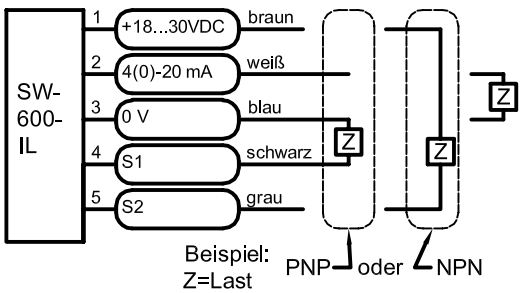
Certificate: CE

Technical data

Measuring range , dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)	1 - 500 cm/s (H_2O: 300 cm/s)
Repeat accuracy	1 %	1 %
Switching point, Hysteresis	adjustable	adjustable

Type	**SW-600-G1/2"/28-IL**	**SW-600-G1/2"/28-IL-02**
Art.-No.	**544 140**	**544 150**
Process connection	**G1/2"**	**G1/2"**
Operating voltage (U_B)	18...30 V DC	
Permitted residual ripple max.	10 %	
Analog output	4(0) - 20mA, 2(0) - 10V with 500 Ohm	
Switching outputs	PNP, NPN max 300 mA in total	
No-load current (I_o)	typ. 60 mA	
Response- time	typ. 2 s	
Temperature gradient	typ. 4 K/s	
Operating pressure	100 bar	
Permitted ambient temperature	0...+70°C	
Display	LCD Display (32 x 16 pixel), LED red	
Degree of protection IEC 529	IP 67	
Connection	plug-in connector M12 x 1, 5pole	
Material in contact with medium	stainless steel no. 1.4571 (VA)	
Housing	stainless steel no. 1.4504 (VA)	
Glass	mineral glass tempered	
Magnet	Cobalt Samarium	





Calorimetric flow sensor for liquids SW-600-TRI-...-IL

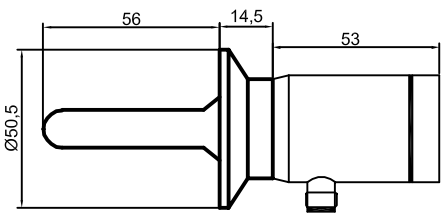
- **Triclamp for food industry**
- **Analog output 4(0) - 20 mA**
- **Two switching outputs**
- **Microprocessor controlled**
- **Programmable**

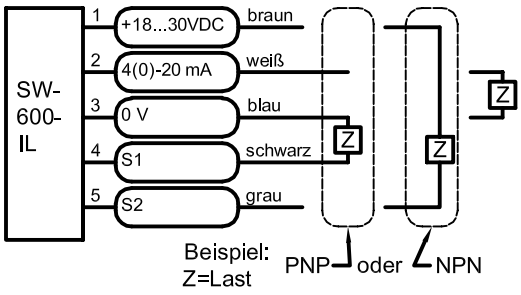
Certificate: CE

Technical data

Measuring range , dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)
Repeat accuracy	1 %
Switching point, Hysteresis	adjustable

Type	**SW-600-TRI-56-IL**
Art.-No.	**544 250**
Process connection	**TRICLAMP ∅ 50,5 mm**
Operating voltage (U_B)	18...30 V DC
Permitted residual ripple max.	10 %
Analog output	4(0) - 20mA, 2(0) - 10V with 500 Ohm
Switching outputs	PNP, NPN max 300 mA in total
No-load current (I_0)	typ. 60 mA
Response- time	typ. 2 s
Temperature gradient	typ. 4 K/s
Operating pressure	100 bar
Permitted ambient temperature	0...+70°C
Display	LCD Display (32 x 16 pixel), LED red
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1, 5pole
Material in contact with medium	stainless steel no. 1.4571 (VA)
Housing	stainless steel no. 1.4504 (VA)
Glass	mineral glass tempered
Magnet	Cobalt Samarium





Calorimetric flow sensor for liquids SW-600-...-S

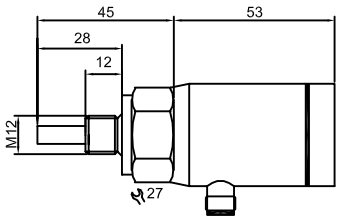
- **Digital output**
- **Microprocessor controlled**

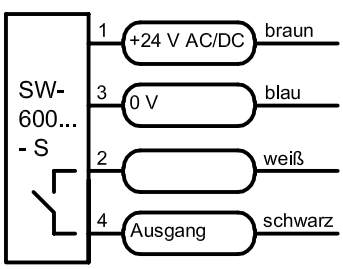
Certificate: CE

Technical data

Measuring range, dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)
Repeat accuracy	1 %
Switching point	adjustable

Type	**SW-600-M12/28-S**
Art.-No.	**544 200**
Process connection	**M12 x 1**
Operating voltage (U_B)	24 V AC/DC ±10%
Switching output	galvanic seperated, relay contact (NO), max. 200 mA
No-load current (I_o)	typ. 60 mA
Response-time	typ. 2 s
Temperature gradient	typ. 4 K/s
Operating pressure max.	100 bar
Permitted ambient temperature	0...+70°C
Display	LED red/green (red < limit value, green >limit value)
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1, 4pole
Material in contact with medium	stainless steel no. 1.4571 (VA)
Housing	stainless steel no. 1.4504 (VA)
Lid	PA 6.6
Shortcircuit protection	yes
Reverse polarity protection	yes





Calorimetric flow sensor for liquids SW-600-...-S(-02)

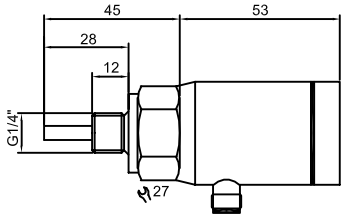
- **Digital output**
- **Microprocessor controlled**

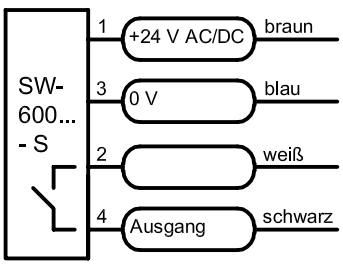
Certificate: CE

Technical data

Measuring range, dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)	1 - 500 cm/s (H_2O: 300 cm/s)
Repeat accuracy	1 %	1 %
Switching point	adjustable	adjustable

Type	**SW-600-G1/4''/28-S**	**SW-600-G1/4''/28-S-02**
Art.-No.	**544 220**	**SW0004**
Process connection	**G1/4''**	**G1/4''**
Operating voltage (U_B)	24 V AC/DC ±10%	
Switching output	galvanic seperated, relay contact (NO), max. 200 mA	
No-load current (I_o)	typ. 60 mA	
Response-time	typ. 2 s	
Temperature gradient	typ. 4 K/s	
Operating pressure max.	100 bar	
Permitted ambient temperature	0...+70°C	
Display	LED red/green (red < limit value, green >limit value)	
Degree of protection IEC 529	IP 67	
Connection	plug-in connector M12 x 1, 4pole	
Material in contact with medium	stainless steel no. 1.4571 (VA)	
Housing	stainless steel no. 1.4504 (VA)	
Lid	PA 6.6	
Shortcircuit protection	yes	
Reverse polarity protection	yes	





Calorimetric flow sensor for liquids SW-600-...-S with PTFE coated sensor tip

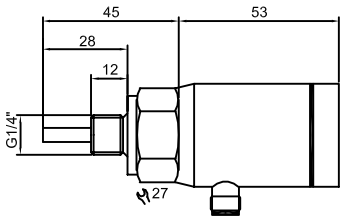
- **Nonstick PTFE coating**
- **Digital output**
- **Microprocessor controlled**

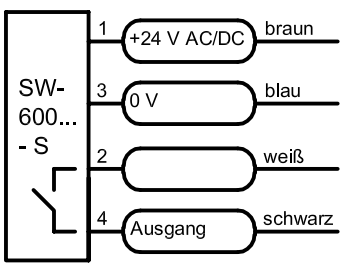
Certificate: CE

Technical data

Measuring range, dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)
Repeat accuracy	1 %
Switching point	adjustable

Type	**SW-600-G1/4''/28-S with PTFE-coated sensor tip**
Art.-No.	**544 221**
Process connection	**G1/4''**
Operating voltage (U_B)	24 V AC/DC ±10%
Switching output	galvanic seperated, relay contact (NO), max. 200 mA
No-load current (I_o)	typ. 60 mA
Response-time	typ. 2 s
Temperature gradient	typ. 4 K/s
Operating pressure max.	100 bar
Permitted ambient temperature	0...+70°C
Display	LED red/green (red < limit value, green >limit value)
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1, 4pole
Material in contact with medium	stainless steel no. 1.4571 (VA), PTFE-covered
Housing	stainless steel no. 1.4504 (VA)
Lid	PA 6.6
Shortcircuit protection	yes
Reverse polarity protection	yes





Calorimetric flow sensor for liquids SW-600-...-S(-02)

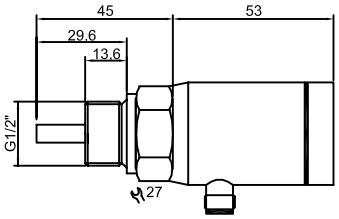
- **Digital output**
- **Microprocessor controlled**

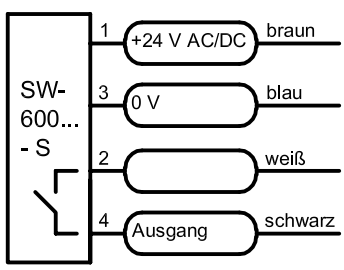
Certificate: CE

Technical data

Measuring range, dependent on material	1 - 300 cm/s (H_2O: 150 cm/s)	1 - 500 cm/s (H_2O: 300 cm/s)
Repeat accuracy	1 %	1 %
Switching point	adjustable	adjustable

Type	**SW-600-G1/2"/28-S**	**SW-600-G1/2"/28-S-02**
Art.-No.	**544 240**	**SW0005**
Process connection	**G1/2"**	**G1/2"**
Operating voltage (U_B)	24 V AC/DC ±10%	
Switching output	galvanic seperated, relay contact (NO), max. 200 mA	
No-load current (I_o)	typ. 60 mA	
Response-time	typ. 2 s	
Temperature gradient	typ. 4 K/s	
Operating pressure max.	100 bar	
Permitted ambient temperature	0...+70°C	
Display	LED red/green (red < limit value, green >limit value)	
Degree of protection IEC 529	IP 67	
Connection	plug-in connector M12 x 1, 4pole	
Material in contact with medium	stainless steel no. 1.4571 (VA)	
Housing	stainless steel no. 1.4504 (VA)	
Lid	PA 6.6	
Shortcircuit protection	yes	
Reverse polarity protection	yes	





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