



### Inline positive displacement (PD) flowmeter, ELEMENT design

- Configurable outputs: one or two transistor output(s) and one or two 4...20 mA current output(s)
- · Removable backlit display/configuration module for indication of flow rate and volume with two flow totalizers
- Automatic calibration using Teach-In, all outputs can be checked without the need for actual flow

Product variants described in the data sheet may differ from the product presentation and description.

### Can be combined with



Type 8611 eCONTROL - Universal controller

Pneumatically operated

▶

▶



#### 2/2-way diaphragm valve CLASSIC with plastic valve body

Type 2030

Type 2101



Pneumatically operated 2/2-way globe valve **ELEMENT** for decentralised automation



### Type 8692 Digital electro-pneumatic positioner for integrated

mounting on process control valves Type 8644



AirLINE SP electropneumatic automation system



Type 8619 ► multiCELL - Multi-channel and multi-function transmitter/controller

#### Type description

The device Type SE36 + S077 is specially designed for continuous flow measurement of highly viscous fluids like glue, honey or oil. slightly aggressive, solid-free liquids.

The device is made up of a compact Inline sensor-fitting with oval gears (Type S077) and a transmitter with display (Type SE36). The device is quickly and easily assembled thanks to a bayonet mounting and locking system. The Bürkert "Inline guarter-turn" technology ensures a leakage-free operation.

The Bürkert designed sensor-fitting system ensures simple installation of the devices into all pipelines from DN 15...DN 100.

The device is provided either with 2 configurable outputs (1 transistor output (NPN) and (1 current output 4...20 mA, 2-wire), or with 3 configurable outputs (2 transistor outputs (NPN/PNP) and 1 current output 4...20 mA, 2-wire) or with 4 configurable outputs (2 transistor outputs (NPN/PNP) and (2 current outputs 4...20 mA, 3-wire).

The device converts the measured signal, displays different values in different units (if the display/configuration module is mounted) and computes the output signals which are provided via one or two M12 fixed connectors. Thanks to 1 or 2 transistor outputs, the flowmeter can be used to switch a solenoid valve, activate an alarm and, thanks to 1 or 2 current outputs, establish one or two control loops.

# บริษัท แฟ็คโต คอมโพเนนส์ จำกัด | FACTO COMPONENTS CO., LTD.



845/3-4 ชั้น 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270



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**Product properties** 



#### 1. General technical data

#### Note:

Material

If the device is mounted in a humid environment or outside, then the maximum voltage allowed is 35 V DC instead of 36 V DC.

Make sure the device materials a Further information can be found	are compatible with the fluid you are using. I in chapter "3.1. Bürkert resistApp" on page 6.	
Further information on the mater	ials can be found in chapter "3.2. Material specifications" on page 6.	
Non wetted parts		
Cover	Polycarbonate (PC), transparent (opaque on request)	
Housing	Stainless steel 1.4404 (316L), PPS	
Screw	Stainless steel 1.4401 (316 (A4))	
Grounding terminal and screw	Stainless steel 1.4301 (304 (A2))	
Bayonet system	PC	
Display/configuration module	PC	
Navigation key	PBT	
Seal	EPDM, silicone	
Fixed connector holder	PPS CF30	
Fixed connector	Nickel-plated brass (stainless steel on request)	
Wetted parts		
Axis	Stainless steel 316L (1.4401)	
Oval gear	Stainless steel 316L (1.4401)	
Sensor-fitting body	Aluminium, stainless steel 316L (1.4401)	
Cover	Aluminium, stainless steel 316L (1.4401)	
Seal	FKM or FEP/PTFE encapsulated	
Compatibility	Any pipe from DN 15DN 100 which is fitted with Bürkert S077 Inline sensor-fitting. For the selection of the nominal diameter of the Inline sensor-fittings, see <b>data sheet Type S077</b> ►.	
Pipe diameter	DN 15DN 100	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 7.	
Measuring principle	Oval gear	
Measuring range	<ul> <li>Viscosity &gt; 5 mPa.s: 21200 I/min (0.53320 gpm)</li> </ul>	
	<ul> <li>Viscosity &lt; 5 mPa.s: 3616 l/min (0.78320 gpm)</li> </ul>	
Product accessory Display/configuration module	Grey dot matrix 128 x 64 with backlighting	
Performance data		
Measurement deviation	<ul> <li>With K-factor determined with a teach-in procedure or with the specific K-factor, engraved on the sensor-fitting: ±0.5% of the measured value (at Teach-In flow rate value)</li> </ul>	
	With standard K-factor: ±1% of the measured value	
Repeatability	±0.03% of the measured value	
420 mA output uncertainty	±1% of current range	
Electrical data		
Operating voltage	<ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1436 V DC, filtered and regulated</li> </ul>	
	• 4 outputs transmitter (3-wire) variant: 1236 V DC, filtered and regulated	
38 <sup>1×</sup>	Connection to main supply: permanent, through external SELV (Safety Extra Low Voltage) and LPS (Limited Power Source) power supply	
Power source (not supplied)	Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/ EN 61010-1 paragraph 9.4	
DC reverse polarity protection	Yes	
Overvoltage protection	Yes	
Current consumption	With sensor	
	<ul> <li>≤1 A (with transistors load)</li> </ul>	
	<ul> <li>2 or 3 outputs transmitter (2-wire) variant: ≤25 mA (at 14 V DC without transistors load, with current loop)</li> </ul>	
	<ul> <li>4 outputs transmitter (3-wire) variant: ≤5 mA (at 12 V DC without transistors load, without current loop)</li> </ul>	
Power consumption	Max. 40 W	



Output       • Transitor (dipital output):         - I transitor output (transmitter 2-wire):       - NPN, open collector         - max. 700 mA       -         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector       -         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector       -         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector       -         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector       -         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -         - adjustable as sourcing or sinking (in the same mode as transitor)       -		
+ 1 transistor output (transmitter 2-wire):         - NPN, open collector         - NPN, open collector         - max, 700 mA         - 158 V DC         - 2 transistor outputs (transmitter 2 or 3-wire):         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector         - max, 700 mA         - 0.5.4 max, per transistor outputs are wired         - NPN-output: 138 V DC         - PNP-output: 10-84 V DC, 100 A 136 V DC, 100 A 144 V DC, 100 A 142 V DC, 100 A 144 V DC, 100 A 142 V DC, 100 A 144 V DC, 100 A 142 V DC, 100 A 144 V DC,	Output	Transistor (digital output):
Final Sector       - max. 700 mA         - 18 V DC       - 2 transistor outputs (transmitter 2 or 3-wire):         - adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector         - max. 700 mA       - 0.5 A max. per transistor if the 2 transistor outputs are wired         - NPN-output: Power supply       - Current (analogue output):         - 420 mA       - adjustable as sourcing or sinking (in the same mode as transistor)         - max. (opi impedance:       - 1 current output (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC         - 2 corrent output (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC       - 2 corrent output (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC         - 1 current output (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC       - 2 corrent outputs; see chapter "3.5. Ordering chart accessories" on page 11.         - For trees connectors; and/or the male M12 connector are not included in the delivery and must be ordered separately; see chapter "3.5. Ordering chart accessories" on page 11.         - For trees connectors; Queet 90 V DS, 100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC         - 1 current output (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC         - 420 mA         - 6 ordered separately; see chapter "3.5. Ordering chart accessories" on page 11.         For trees connectors; Queet 90 V DS, 100 R at 24 V DC, 180 Q at 14 V DC <td></td> <td><ul> <li>1 transistor output (transmitter 2-wire):</li> </ul></td>		<ul> <li>1 transistor output (transmitter 2-wire):</li> </ul>
<ul> <li> <ul> <li> <ul> <ul> <li>adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector</li></ul></ul></li></ul></li></ul>		<ul> <li>NPN, open collector</li> </ul>
Image: Strandbard Strand		– max. 700 mA
<ul> <li>2 transistor outputs (transmitter 2 or 3-wire):         <ul> <li>adjustable as sourcing or sinking (respectively both as PNP or NPN), open collector</li> <li>max. 700 mA</li> <li>0.5 A max. per transistor if the 2 transistor outputs are wired</li> <li>NPN-output: 136 V DC</li> <li>PNP-output: Power supply</li> </ul> </li> <li>Current (analogue output):         <ul> <li>- AL20 mA</li> <li>- adjustable as sourcing or sinking (in the same mode as transistor)</li> <li>- max. loop impedance:                 <ul> <li>- adjustable as sourcing or sinking (in the same mode as transistor)</li> <li>- max. loop impedance:</li></ul></li></ul></li></ul>		– 136 V DC
<ul> <li>adjustable as sourcing or sinking (respectively both as PNP or NPN ), open collector         <ul> <li>max, 700 mA</li> <li>0.6 A max, per transistor if the 2 transistor outputs are wired</li> <li>NPN-output: 136 V DC</li> <li>PNP-output: 100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current 0 disputs (transmitter 3-wire): 100 Q ot 36 V DC, 610 Q at 26 V DC, 610</li></ul></li></ul>		<ul> <li>2 transistor outputs (transmitter 2 or 3-wire);</li> </ul>
Process/Pipe connection       emax. 100 mA       0.5 A max. per transistor if the 2 transistor outputs are wired         NPN-output: 136 V DC       PNP-output: 136 V DC         PNP-output: 136 V DC       PNP-output: 136 V DC         Imax. loop impedance:       -         -       120 mA         -       adjustable as sourcing or sinking (in the same mode as transistor)         -       max. loop impedance:         -       1 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 14 V DC         -       2 current output (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 14 V DC         -       2 current output (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 14 V DC         -       2 current output (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 14 V DC         -       0 current (analogue output):         -       adjustable as sourcing or sinking (in the same mode as transistor)         -       max. loop impedance:         -       10 current (analogue output):         -       0 current (analogue output):         -       0 current output (transmitter 3-wire): 100 Ω at 34 V DC, 100 Ω at 14 V DC         -       0 current output (transmitter 3-wire): 100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 14 V DC         -       0 consesterities       0.0 Cerr		$_{-}$ adjustable as sourcing or sinking (respectively both as PNP or NPN) open collector
<ul> <li>Inda. 1 00 Ins</li> <li>0.6 A max, per transistor if the 2 transistor outputs are wired</li> <li>NPN-output: 136 V DC</li> <li>PNP-output: Power supply</li> <li>Current (analogue output):</li> <li>420 mA</li> <li>a adjustable as sourcing or sinking (in the same mode as transistor)</li> <li>max. loop impedance:</li> <li>1 current output (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 7100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>3 dial dial dial dial dial dial dial dial</li></ul>		
- U.S.A max. per transistor in the 2 transistor outputs are wred         - NPN-output: Power supply         - Current (nanlogue output):         - 420 mA         - adjustable as sourcing or sinking (in the same mode as transistor)         - max. loop impedance:         - 1 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC         - 2 current outputs (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC         Voltage supply cable       The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "3.5 Ordering chart accessories" on page 11.         For these connectors.use a shalled cable with.       • diameter 36.5 mm         • cross section of wires: max. 0.75 mm²         Medium data         Fluid temperature       With Inline sensor-fitting Type S077 in:         • Aluminium: -20+80 °C (-4+176 °F)         • Stainless stel: 700+120 °C (-4+248 °F)         • See data sheet Type S077 bith:         • DN 15: max. 15 bar (78.06 °Fs) (if more information.         Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 40 or DN 50: max. 16 bar (28.06 °Fs) (if more information.         Viscosity       Max. 1 Pas (if per on request)         Rate of solid particles       0%         Processy/Fice connection       0 bar (74.5		- max. 700 mA
<ul> <li>NPN-output: 136 V DC</li> <li>PNP-output: Power supply</li> <li>Current (analogue output):         <ul> <li>420 mA</li> <li>adjustable as sourcing or sinking (in the same mode as transistor)</li> <li>max. loop impedance:                 <ul> <li>1 current output (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 180 Q at 14 V DC</li> <li>2 current output (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 100 Q at 14 V DC</li> <li>2 current output (transmitter 2-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 100 Q at 12 V DC</li> <li>12 V DC</li> <li>The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "3.5. Ordering chart accessories" on page 11.</li> <li>For these connectors. use a shielded cable with:</li> <li>diameter: 36.5 mm</li> <li>diameter: 36.5 mm</li> <li>Stainless stel: -20+120 °C (-4+170 °F)</li> <li>Stainless stel: -20+120 °C (-4+248 °F)</li></ul></li></ul></li></ul>		- 0.5 A max. per transistor if the 2 transistor outputs are wired
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<ul> <li>adjustable as sourcing or sinking (in the same mode as transistor)         <ul> <li>max. loop impedance:</li> <li>1 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current outputs (transmitter 3-wire): 100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 Current 0 V With Inline sensor-fitting Type SOT7 N tith:</li> <li>2 Current 0 V DN 50: The X: 160 Ω SI 150LB fitting</li> <li>2 Current 0 V DN 50: The X: 160 Ω NFN 1 The reset of current 16 × 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.</li></ul></li></ul>		– 420 mA
<ul> <li>max. loop impedance:         <ul> <li>1 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>2 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 12 V DC</li> </ul> </li> <li>Voltage supply cable</li> <li>The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "3.6.07 dering chart accessories" on page 11. For these connectors, use a shielded cable with:             <ul></ul></li></ul>		<ul> <li>adjustable as sourcing or sinking (in the same mode as transistor)</li> </ul>
<ul> <li>- 1 current output (transmitter 2-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 180 Ω at 14 V DC</li> <li>- 2 current outputs (transmitter 3-wire): 1100 Ω at 36 V DC, 610 Ω at 24 V DC, 100 Ω at 12 V DC</li> <li>Voltage supply cable</li> <li>The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "9.5. Ordering chart accessories" on page 11. For these connectors, use a shielded cable with:         <ul> <li>diameter: 36.5 mm</li> <li>oross section of wires: max. 0.75 mm<sup>2</sup></li> </ul> </li> <li>Medium data</li> <li>Fluid temperature</li> <li>With Inline sensor-fitting Type S077 in:         <ul> <li>Aluminitum: 20 + 80 °C (-4 + 176 °F)</li> <li>Stainless steel: -20 + 120 °C (-4 + 248 °F)</li> <li>See data sheet Type S077 b for more information.</li> </ul> </li> <li>Fluid pressure</li> <li>With Inline sensor-fitting Type S077 with:         <ul> <li>DN 15: max. 55 bar (798.05 PSI)<sup>11</sup></li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 b for more information.</li> </ul> </li> <li>Viscosity</li> <li>Max. 1 Pa.s (higher on request)</li> <li>Process/Pipe connection &amp; With Inline sensor-fitting Type S077 with:             <ul> <li>Thread: '%', '1, '12', '2' or 3'' (G or NPT)</li> <li>Flange:                 <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1', '14'', '2', '3' or 4''ANNI 150LB flange</li> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outp</li></ul></li></ul></li></ul>		– max. loop impedance:
- 2 current outputs (transmitter 3-wire): 1100 Q at 36 V DC, 610 Q at 24 V DC, 100 Q at 12 V DC         Voltage supply cable       The fermale M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "9.5, 0rdering chart accessories" on page 11. For these connectors, use a shielded cable with: <ul> <li>diameter: 36.5 mm</li> <li>cross section of wires: max. 0.75 mm<sup>2</sup></li> </ul> Medium data         Fluid temperature         With Inline sensor-fitting Type S077 in: <ul> <li>Aluminium: -20+80 °C (-4+176 °F)</li> <li>Stainless steel: -20+120 °C (-4+248 °F)</li> <li>See data sheet Type S077 I for more information.</li> </ul> Fluid temperature         With Inline sensor-fitting Type S077 with: <ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 25: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 26: max. 12 bar (174.12 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 100: max. 12 bar (174.12 PSI)</li> <li>See data sheet Type S077 V for more information.</li> </ul> Viscosity         Max. 1 Pa.s (higher on request)		- 1 current output (transmitter 2-wire): 1100 $\Omega$ at 36 V DC, 610 $\Omega$ at 24 V DC, 180 $\Omega$ at 14 V DC
Voltage supply cable       The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "9.5. Ordering chart accessories" on page 11. For these connectors, use a shielded cable with: <ul> <li>diameter: 36.5 mm</li> <li>cross section of wires: max. 0.75 mm<sup>2</sup></li> </ul> <li>Medium data</li> <li>Fluid temperature</li> <li>With Inline sensor-fitting Type S077 in:       <ul> <li>Aluminium: -20+80 °C (-4+248 °F)</li> <li>Stainless steei: -20+120 °C (-4+248 °F)</li> <li>Stainless steei: -20+120 °C (-4+248 °F)</li> <li>See data shee Type S077 b for more information.</li> </ul> <li>Fluid pressure</li> <li>With Inline sensor-fitting Type S077 with:       <ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 400 r DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 400 r DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 400 r DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 400 r DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 400 r DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>DN 60: more information.</li> </ul> <li>Viscosity</li> <li>Max. 1 Pa.s (higher on request)</li> <li>Process/Pige connection &amp; Wth Inline sensor-fitting Type S077 with:         <ul> <li>Thread: ½°, 1°, 1½°, 2° or 3° (G or NPT)</li> <li>Flange:                 <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16</li></ul></li></ul></li></li></li>		- 2 current outputs (transmitter 3-wire): 1100 $\Omega$ at 36 V DC, 610 $\Omega$ at 24 V DC, 100 $\Omega$ at
Voltage supply cable       The female M12 connector and/or the male M12 connector are not included in the delivery and must be ordered separately, see chapter "9.5. Ordering chart accessories" on page 11. For these connectors, use a shielded cable with: <ul> <li>diameter: 36.5 mm</li> <li>cross section of wires: max. 0.75 mm<sup>2</sup></li> </ul> Medium data         Fluid temperature         With Inline sensor-fitting Type S077 in: <ul> <li>Aluminium: -20+80 °C (-4+248 °F)</li> <li>See data sheet Type S077 b for more information.</li> </ul> Fluid pressure         With Inline sensor-fitting Type S077 b for more information.           Fluid pressure         With Inline sensor-fitting Type S077 b for more information.           Fluid pressure         DN 15: max. 55 bar (798.05 PSI) '1           DN 40 or DN 50: max. 18 bar (261.18 PSI)         DN 40 or DN 50: max. 18 bar (261.18 PSI)           DN 60: max. 10 bar (145.1 PSI)         See data sheet Type S077 <b>b</b> for more information.           Viscosity         Max. 1 Pa.s (higher on request)           Rate of solid particles         0%           Process/Pipe connection & communication         There struct, 'w, '1', 1%', 2'' or 3'' (G or NPT)           Flange:         - 25, 40, 50, 70 or 100 mm DIN PN 16 fiange               - 1', 1', 1', 2'', 3'' or 4' ANSI 150LB fiange               See data sheet Type S077 <b>b</b> for more informa		12 V DC
be ordered separately, see chapter "9.5. Ordering chart accessories" on page 11.         For these connectors, use a shielded cable with:         • diameter: 36.5 mm         • cross section of wires: max. 0.75 mm²         Medium data         Fluid temperature         With Inline sensor-fitting Type S077 in:         • Aluminium: -20+80 °C (-4+176 °F)         • Stainless steet: -20+120 °C (-4+248 °F)         See data sheet Type S077 b for more information.         Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 15: max. 55 bar (798.05 PSI) (threaded process connection)         • DN 25: max. 55 bar (798.05 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 10 bar (145.1 PSI)         • See data sheet Type S077 b for more information.         Viscosity       Max. 12 bar (174.12 PSI)         • DN 100: max. 10 bar (145.1 PSI)         • See data sheet Type S077 b for more information.         Viscosity       Max. 12 bar (174.12 PSI)         • DN 100: max. 10 bar (145.1 PSI)         • See data sheet Type S077 b for more information.         Viscosity       Max. 17, 11%, 2, 2* or 3* (Go NPT)         • Thread: '%', 1*', 1%', 2*' or 3* (Go NPT)         • Finarge:       - 25, 40, 50,	Voltage supply cable	The female M12 connector and/or the male M12 connector are not included in the delivery and must
Point disse connections, use a sindled cabe with,         • closes section of wires: max. 0.75 mm <sup>2</sup> Medium data         Fluid temperature       With Inline sensor-fitting Type S077 in:         • Aluminium: -20+80 °C (-4+176 °F)         • Stainless steel: -20+120 °C (+4+248 °F)         See data sheet Type S077 b for more information.         Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 15: max. 55 bar (798.05 PSI) '4         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 10: max. 10 bar (145.1 PSI)         See data sheet Type S077 * for more information.         Viscosity       Max. 1 Pa.s (higher on request)         Rate of solid particles       0%         Process/Pipe connection       With Inline sensor-fitting Type S077 with:         • Thread: 'b', 1'', 1'b'', 2'' or 3'' (G or NPT)         • Flange:       - 25, 40, 50, 80 or 100 mm DIN PN 16 flange         - 2 for 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (2-wire) variant: 1x5-pin M12 male connectors         Approvals and conformities         Cariertive       Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.		be ordered separately, see chapter "9.5. Ordering chart accessories" on page 11.
Image: Instruction of wires: max. 0.75 mm?         Medium data         Fluid temperature       With Inline sensor-fitting Type S077 in: <ul> <li>Aluminium: -20+80 °C (-4+176 °F)</li> <li>Stainless steel: -20+120 °C (-4+248 °F)</li> <li>See data sheet Type S077 b for more information.</li> </ul> Fluid pressure       With Inline sensor-fitting Type S077 with: <ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 25: max. 55 bar (798.05 PSI)<sup>11</sup></li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 12 bar (174.12 PSI)</li> <li>DN 40 or DN 50: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 b for more information.</li> </ul> Viscosity       Max. 1 Pa.s (higher on request)         Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½*, 1*, 1½*, 2* or 3* (G or NPT)</li> <li>Flarge:</li></ul>		e diameter: 3 6 5 mm
Medium data         Fluid temperature       With Inline sensor-fitting Type S077 in: <ul> <li>Aluminium: -20+80 °C (-4+176 °F)</li> <li>Stainless steel: -20+120 °C (-4+248 °F)</li> <li>See data sheet Type S077 V for more information.</li> </ul> Fluid pressure       With Inline sensor-fitting Type S077 With: <ul> <li>DN 15: max. 55 bar (798.05 PSI) <sup>(1)</sup></li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 V for more information.</li> </ul> Viscosity       Max. 1 Pa.s (higher on request)         Rate of solid particles       0 %         Process/Pipe connection       With Inline sensor-fitting Type S077 With:         Thread: ½*, 1*, 1½*, 2* or 3* (G or NPT)         Flange:       - 25, 40, 50, 80 or 100 mm DIN PN 16 fange         See data sheet Type S077 V for more information.         Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connector         • 2 or 3 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connector         • 4 outputs trans		• diameter. 5
Fluid temperature       With Inline sensor-fitting Type S077 in:         • Aluminium: -20+80 °C (-4+176 °F)         • Stainless steet: -20+120 °C (-4+248 °F)         See data sheet Type S077 Iv for more information.         Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 15: max. 55 bar (798.05 PSI) (threaded process connection)         • DN 25: max. 55 bar (798.05 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 10: max. 10 bar (145.1 PSI)         • DN 10: max. 10 bar (145.1 PSI)         See data sheet Type S077 V for more information.         Viscosity       Max. 1 Pas. (higher on request)         Rate of solid particles       0%         Process/Pipe connection & With Inline sensor-fitting Type S077 with:         • Thread: ½, 1*, 1½*, 2* or 3* (G or NPT)         • Flange:       - 25, 40, 50, 80 or 100 mm DIN PN 16 flange         - 1*, 1½*, 2*, 3* or 4* ANSI 150LB flange         See data sheet Type S077 V for more information.         Electrical connection       • 4 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male connectors         Approvals and conformities       Further information on the CE Directive can be foun	Modium data	Cross section of wires: max. 0.75 mm <sup>2</sup>
Had kenpertaal <ul> <li>Aluminium: -20+80 °C (-4+176 °F)</li> <li>Stainless steel: -20+120 °C (-4+248 °F)</li> <li>See data sheet Type S077 <b>&gt;</b> for more information.</li> </ul> Fluid pressure          With Inline sensor-fitting Type S077 with: <ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 25: max. 55 bar (798.05 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 <b>&gt;</b> for more information.</li> </ul> Viscosity         Max. 1 Pa.s (higher on request)           Rate of solid particles         0% <b>Process/Pipe connection &amp; communication</b> <ul> <li>With Inline sensor-fitting Type S077 with:</li> <li>Thread: 'k', 1'', 1'k'', 2'' or 3'' (G or NPT)</li> <li>Flange:               <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1''', 1''', 2'', 3'' or 4'' ANSI 150LB flange</li> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (2-wire) variant: 1 x5-pin M12 female connector</li> <li>Pressure equipment directive</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive</li> </ul> </li> <li>Pressure equipment directive (PED)<sup>*</sup> on page 5.</li> <li>North America (USA/Canada)</li> <li>U. Recognized for the USA and Canada</li> </ul>	Fluid temperature	With Inline sensor-fitting Type S077 in:
<ul> <li>Stainless steel: -20+ 120 °C (-4+248 °F) See data sheet Type S077 ▶ for more information.</li> <li>Fluid pressure</li> <li>With Inline sensor-fitting Type S077 with:         <ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 25: max. 55 bar (798.05 PSI)<sup>11</sup></li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 40 or DN 50: max. 10 bar (145.1 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> </li> <li>Viscosity</li> <li>Max. 1 Pa.s (higher on request)</li> <li>Rate of solid particles</li> <li>0%</li> <li>Process/Pipe connection &amp; communication</li> <li>Pipe connection &amp; communication</li> <li>Pipe connection &amp; communication</li> <li>Flange:             <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> </li> <li>Electrical connection         <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connectors</li> </ul> </li> <li>Approvals and conformities         <ul> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive</li> <li>Pressure equipment directive</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive Equipment Directive (PED)" on page 5.</li> </ul> </li> <li>North America (USA/Canada)</li> <li>U. Recognized for the USA and Canada</li> </ul>		• Aluminium: $-20 + 80 \degree C (-4 + 176 \degree F)$
See data sheet Type S077 > for more information.         Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 15: max. 55 bar (798.05 PSI) (threaded process connection)       • DN 25: max. 55 bar (798.05 PSI)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)       • DN 80: max. 12 bar (174.12 PSI)         • DN 100: max. 10 bar (145.1 PSI)       • DN 100: max. 10 bar (145.1 PSI)         See data sheet Type S077 > for more information.       Viscosity         Max. 1 Pa.s (higher on request)       • DN 40 or DN 50: max. 10 bar (145.1 PSI)         See data sheet Type S077 > for more information.       Viscosity         Max. 1 Pa.s (higher on request)       • DN 40 or DN 50: max. 10 bar (145.1 PSI)         See data sheet Type S077 > for more information.       • Drecess/Pipe connection & communication         Process/Pipe connection & communication       • Uith Inline sensor-fitting Type S077 with:         • Thread: ½", 1", 1½", 2" or 3" (G or NPT)       • Flange:         • 25, 40, 50, 80 or 100 mm DIN PN 16 flange       • 2*, 40, 50, 80 or 100 mm DIN PN 16 flange         See data sheet Type S077 > for more information.       Electrical connector         • 1", 1½", 2", 3" or 4" ANSI 150LB flange       See data sheet Type S077 > for more information.         Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male and 1 x5-pin M12 female connectors         Approvals and conformities <td></td> <td>• Stainless steel: <math>-20 \pm 120 \circ C (-4 \pm 248 \circ F)</math></td>		• Stainless steel: $-20 \pm 120 \circ C (-4 \pm 248 \circ F)$
Fluid pressure       With Inline sensor-fitting Type S077 with:         • DN 15: max. 55 bar (798.05 PSI) (threaded process connection)         • DN 25: max. 55 bar (798.05 PSI) (threaded process connection)         • DN 40 or DN 50: max. 18 bar (261.18 PSI)         • DN 40 or DN 50: max. 12 bar (174.12 PSI)         • DN 100: max. 10 bar (145.1 PSI)         See data sheet Type S077 ▶ for more information.         Viscosity         Max. 1 Pa.s (higher on request)         Rate of solid particles         0 %         Process/Pipe connection & communication         Pipe connection         With Inline sensor-fitting Type S077 with:         • Thread: ½", 1", 1½", 2" or 3" (G or NPT)         • Flange:         • 25, 40, 50, 80 or 100 mm DIN PN 16 flange         • 1", 1½", 2", 3" or 4" ANSI 150LB flange         See data sheet Type S077 ▶ for more information.         Electrical connection         • 2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connectors         Approvals and conformities         Directives         CE directive         Purther information on the CE Directive can be found in chapter "2.3. Standards" on page 5. <tr< td=""><td></td><td>See data sheet Type S077 &gt; for more information.</td></tr<>		See data sheet Type S077 > for more information.
<ul> <li>DN 15: max. 55 bar (798.05 PSI) (threaded process connection)</li> <li>DN 25: max. 55 bar (798.05 PSI)<sup>1)</sup></li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 80: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> Viscosity Max. 1 Pa.s (higher on request) Rate of solid particles 0% Process/Pipe connection & communication Pipe connection With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1", 1", 2", 3" or 4" ANSI 150LB flange</li> </ul> See data sheet Type S077 ▶ for more information. Electrical connection <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector</li> <li>4 outputs transmitter (3-wire) variant: 1x5-pin M12 male connector</li> </ul> Approvals and conformities Directives CE directive Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5. Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive (PED)" on page 5. North America (USA/Canada) UL Recognized for the USA and Canada	Fluid pressure	With Inline sensor-fitting Type S077 with:
<ul> <li>DN 25: max. 55 bar (798.05 PSI)<sup>11</sup></li> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 80: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> Viscosity Max. 1 Pa.s (higher on request) Rate of solid particles 0% Process/Pipe connection & communication Pipe connection With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> Electrical connection <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male connector</li> </ul> Approvals and conformities Directives CE detrective Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5. Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive (PED)" on page 5. North America (USA/Canada) UL Recognized for the USA and Canada	·	DN 15: max. 55 bar (798.05 PSI) (threaded process connection)
<ul> <li>DN 40 or DN 50: max. 18 bar (261.18 PSI)</li> <li>DN 80: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI) See data sheet Type S077 <b>&gt;</b> for more information.</li> <li>Viscosity</li> <li>Max. 1 Pa.s (higher on request)</li> <li>Rate of solid particles</li> <li>0%</li> <li>Process/Pipe connection &amp; comunication</li> <li>Pipe connection</li> <li>With Inline sensor-fitting Type S077 with:         <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:                 <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li></ul></li></ul></li></ul>		• DN 25: max. 55 bar (798.05 PSI) <sup>1.)</sup>
<ul> <li>DN 80: max. 12 bar (174.12 PSI)</li> <li>DN 100: max. 10 bar (145.1 PSI)</li> <li>See data sheet Type S077 I/ for more information.</li> </ul> Viscosity Max. 1 Pa.s (higher on request) Rate of solid particles       Process/Pipe connection & communication   Pipe connection       With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:</li> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>5ee data sheet Type S077 V for more information.</li> </ul> Electrical connection <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connectors</li> </ul> Approvals and conformities Directives CE directive <ul> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> </ul> Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive (PED)" on page 5. North America (USA/Canada) UL Recognized for the USA and Canada		• DN 40 or DN 50; max, 18 bar (261,18 PSI)
In the ball (in the ball (in the tot))         • DN 100: max. 10 bar (145.1 PSI)         See data sheet Type S077 ▶ for more information.         Viscosity       Max. 1 Pa.s (higher on request)         Rate of solid particles       0%         Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with:         • Thread: ½", 1", 1½", 2" or 3" (G or NPT)         • Flange:       - 25, 40, 50, 80 or 100 mm DIN PN 16 flange         - 1", 1½", 2", 3" or 4" ANSI 150LB flange         See data sheet Type S077 ▶ for more information.         Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (2-wire) variant: 1 x5-pin M12 male and 1 x5-pin M12 female connectors         Approvals and conformities         Directives         CE directive         Pursue equipment directive         Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Complying with article 4, paragraph 1 of 2014/68/EU directive         Pressure equipment directive         Ruther information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		• DN 80: max 12 bar (174 12 PSI)
See data sheet Type S077 b for more information.         Viscosity       Max. 1 Pa.s (higher on request)         Rate of solid particles       0%         Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with:         • Thread: ½", 1", 1½", 2" or 3" (G or NPT)         • Flange:       - 25, 40, 50, 80 or 100 mm DIN PN 16 flange         • 1", 1½", 2", 3" or 4" ANSI 150LB flange         See data sheet Type S077 b for more information.         Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors         Approvals and conformities         Directives         CE directive       Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Pressure equipment directive       Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		<ul> <li>DN 100: max 10 bar (1/5 1 PSI)</li> </ul>
Viscosity       Max. 1 Pa.s (higher on request)         Rate of solid particles       0%         Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:                 <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li></ul></li></ul>		See data sheet Type S077 > for more information.
Rate of solid particles       0 %         Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:                 <ul></ul></li></ul>	Viscosity	Max. 1 Pa.s (higher on request)
Process/Pipe connection & communication         Pipe connection       With Inline sensor-fitting Type S077 with: <ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:                 <ul></ul></li></ul>	Rate of solid particles	0%
Pipe connection       With Inline sensor-fitting Type S077 with:         • Thread: ½", 1", 1½", 2" or 3" (G or NPT)         • Flange:         • 25, 40, 50, 80 or 100 mm DIN PN 16 flange         • 1", 1½", 2", 3" or 4" ANSI 150LB flange         See data sheet Type S077 ▶ for more information.         Electrical connection         • 2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male and 1 x5-pin M12 female connectors         Approvals and conformities         Directives         CE directive         Pressure equipment directive         Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure         Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada	Process/Pipe connection & con	mmunication
<ul> <li>Thread: ½", 1", 1½", 2" or 3" (G or NPT)</li> <li>Flange:         <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> </li> <li>Electrical connection         <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male and 1 x5-pin M12 female connectors</li> </ul> </li> <li>Approvals and conformities         <ul> <li>Directives</li> <li>CE directive</li> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive Equipment Directive (PED)" on page 5.</li> </ul> </li> <li>North America (USA/Canada)         <ul> <li>UL Recognized for the USA and Canada</li> </ul> </li> </ul>	Pipe connection	With Inline sensor-fitting Type S077 with:
<ul> <li>Flange:         <ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> </li> <li>Electrical connection         <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector</li> <li>4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors</li> </ul> </li> <li>Approvals and conformities         <ul> <li>Directives</li> <li>CE directive</li> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive</li> <li>Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.</li> </ul> </li> <li>North America (USA/Canada)</li> <li>UL Recognized for the USA and Canada</li> </ul>		• Thread: ½", 1", 1½", 2" or 3" (G or NPT)
<ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange         <ul> <li>1", 1½", 2", 3" or 4" ANSI 150LB flange</li> <li>See data sheet Type S077 ▶ for more information.</li> </ul> </li> <li>Electrical connection         <ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1 x5-pin M12 male connector</li> <li>4 outputs transmitter (3-wire) variant: 1 x5-pin M12 male and 1 x5-pin M12 female connectors</li> </ul> </li> <li>Approvals and conformities         <ul> <li>Directives</li> <li>CE directive</li> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive</li> <li>Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.</li> </ul> </li> <li>North America (USA/Canada)         <ul> <li>UL Recognized for the USA and Canada</li> </ul> </li> </ul>		Flange:
- 1", 1½", 2", 3" or 4" ANSI 150LB flange         See data sheet Type S077 ▶ for more information.         Electrical connection         • 2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors         Approvals and conformities         Directives         CE directive         Pressure equipment directive         Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure         Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		<ul> <li>25, 40, 50, 80 or 100 mm DIN PN 16 flange</li> </ul>
See data sheet Type S077 ▶ for more information.         Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1 x 5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1 x 5-pin M12 male and 1 x 5-pin M12 female connectors         Approvals and conformities         Directives         CE directive         Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure         Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		– 1", 1½", 2", 3" or 4" ANSI 150LB flange
Electrical connection       • 2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector         • 4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors         Approvals and conformities         Directives         CE directive         Pressure equipment directive         Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure         Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		See data sheet Type S077 > for more information.
<ul> <li>4 outputs transmitter (3-wire) variant: 1x5-pin M12 male and 1x5-pin M12 female connectors</li> <li>Approvals and conformities</li> <li>Directives</li> <li>CE directive</li> <li>Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.</li> <li>Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.</li> <li>North America (USA/Canada)</li> <li>UL Recognized for the USA and Canada</li> <li>UL Recognized for the USA and Canada</li> <li>Canada</li> <li>Complexity of the USA and Canada</li> <li>Complexity of the</li></ul>	Electrical connection	<ul> <li>2 or 3 outputs transmitter (2-wire) variant: 1x5-pin M12 male connector</li> </ul>
Approvals and conformities         Directives         CE directive       Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Pressure equipment directive       Complying with article 4, paragraph 1 of 2014/68/EU directive Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada		• 4 outputs transmitter (3-wire) variant: 1 x 5-pin M12 male and 1 x 5-pin M12 female connectors
Directives       Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Pressure equipment directive       Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada	Approvals and conformities	
CE directive       Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.         Pressure equipment directive       Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada	Directives	
Pressure equipment directive       Complying with article 4, paragraph 1 of 2014/68/EU directive         Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5.         North America (USA/Canada)       UL Recognized for the USA and Canada	CE directive	Further information on the CE Directive can be found in chapter "2.3. Standards" on page 5.
Further information on the pressure equipment directive can be found in chapter "2.4. Pressure           Equipment Directive (PED)" on page 5.           North America (USA/Canada)         UL Recognized for the USA and Canada	Pressure equipment directive	Complying with article 4, paragraph 1 of 2014/68/EU directive
North America (USA/Canada) UL Recognized for the USA and Canada		Further information on the pressure equipment directive can be found in chapter "2.4. Pressure Equipment Directive (PED)" on page 5
	North America (USA/Canada)	UL Recognized for the USA and Canada

4 | 11



Environment and installation	
Ambient temperature	Operation and storage: -10+60 °C (+14+140 °F)
Relative air humidity	≤85%, without condensation
Height above sea level	Max. 2000 m
Operating condition	Continuous
Equipment mobility	Fixed
Application range	Indoor and outdoor Protect the device against electromagnetic interference, ultraviolet rays and, when installed outdoors, against the effects of climatic conditions.
Degree of protection <sup>2.)</sup>	IP65, IP67 (according to EN60529), NEMA 4X (according to NEMA250) under the following simultaneous conditions:
	device wired
	cover screwed tight
	M12 connector mounted and tightened
Installation category	Category I according to UL/EN 61010-1
Pollution degree	Degree 2 according to UL/EN 61010-1

1.) Or in accordance to the value of the used flanges

2.) Not evaluated by UL

### 2. Approvals and conformities

### 2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants of the device can be supplied with the below mentioned approvals or conformities.

#### 2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

#### 2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

#### 2.4. Pressure Equipment Directive (PED)

The device conforms to article 4, paragraph 1 of the Pressure Equipment Directive (PED) 2014/68/EU under the following conditions:

#### Device used on a pipe

### Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure (in bar), DN = nominal diameter of the pipe

Type of fluid	Conditions
Fluid group 1, article 4, paragraph 1.c.i	DN ≤25
Fluid group 2, article 4, paragraph 1.c.i	DN ≤32 or PS*DN ≤1000
Fluid group 1, article 4, paragraph 1.c.ii	DN ≤25 or PS*DN ≤2000
Fluid group 2, article 4, paragraph 1.c.ii	$DN \le 200 \text{ or } PS \le 10 \text{ or } PS^*DN \le 5000$



### 2.5. North America (USA/Canada)

Approval	Description
	<ul> <li>Optional: UL Recognized for the USA and Canada</li> <li>The products are UL Recognized for the USA and Canada according to:</li> <li>UL 61010-1</li> </ul>
	• CAN/CSA-C22.2 No. 61010-1

### 3. Materials

### 3.1. Bürkert resistApp



### Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

### 3.2. Material specifications



No.	Element	Material
1	Cover	PC
2	Seal	Silicone
3	Connector (female /male M12)	Nickel-plated brass
4	Housing (top)	PPS
5	Connector holder	PPS CF30
6	Seal	EPDM
7	Screws	Stainless steel 1.4301 (304 (A2))
8	Grounding terminal and screw	Stainless steel 1.4401 (316 (A4))
9	Housing (body)	Stainless steel 1.4404 (316L)
10	Seal	EPDM
11	Housing (base)	PPS
12	Sensor-fitting body	Aluminium or stainless steel (316L)
13	Seal	FKM or FEP/PTFE encapsulated
14	Oval gear	PPS, aluminium or stainless steel (316L)
15	Axis	Stainless steel (316L)



### 4. Dimensions

### 4.1. Transmitter Type SE36

### Note:

Dimensions in mm, unless otherwise stated



### 4.2. Transmitter Type SE36 mounted in an Inline sensor-fitting Type S077

### Note:

Dimensions in mm, unless otherwise stated



ON 100



### 5. Product installation

### 5.1. Installation notes

#### Note:

The device is not suitable for use in gaseous media and steam.

The sensor fitting can be installed in any orientation as long as the rotor shafts are always in a horizontal plane.



The following installation conditions must also be observed:

- The pipe always has to be filled with fluid at all times near the device.
- The pipe design must be such that no air bubbles or cavitation can form within the medium near the device at any time.
- We recommend the installation of a 250 µm strainer as close as possible to the inlet side of the meter, to prevent damage from particles,
- Air purges can damage the appliance and should therefore be avoided.

## 6. Product operation

### 6.1. Measuring principle

When liquid flows through the pipe, the rotors turn. This rotation produces a measuring signal in the associated Hall sensor. The rotation frequency of this signal is proportional to the flow velocity of the fluid. The volume of the fluid being transferred in this way is exactly determined through the sensor geometry.



A conversion coefficient, specific to each meter size, enables the conversion of this frequency into a flow rate. The standard K factor depending on the meter size is available in the flowmeter's operating instructions, see **Type S077**. To improve the measurement deviation, a device-specific K factor is given on the device label.

The electronic component converts the measured signal into several outputs (according to the device variant) and displays the actual value. Totalizers are used to obtain the volume of fluid passed through the pipe.

The electrical connection is provided via a male connector or via male connector M12 and a female connector M12, depending on variant.



### 7. Product design and assembly

### 7.1. Product assembly

#### Note:

- The device Type SE36 + S077 is made up of a Bürkert Inline sensor-fitting Type S077 equipped with a sensor with oval gears and a transmitter Type SE36.
- The Inline sensor-fitting Type S077 ensures simple installation into pipes from DN 15...DN 100. The transmitter Type SE35 can be mounted on any Inline sensor-fitting Type S077 and fastened with a bayonet catch, see **data sheet Type S077 ▶** for more information.

The housing of the device contains the electronic module and a removable display/configuration module.

The device operates without the display/configuration module, but it is required for device configuration (i.e. set or restore parameters, configure information to be displayed, enter access codes...) and also for visualizing continuously the measured and processed data.



### 8. Networking and combination with other Bürkert products

Example:





### 9. Ordering information

### 9.1. Bürkert eShop



#### Bürkert eShop - Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

### 9.2. Recommendation regarding product selection

#### Note:

When only ordering devices without a display/configuration module, make sure that you have a display/configuration module at least for parameterising the device. Otherwise you must also order one (see chapter "9.5. Ordering chart accessories" on page 11).

A complete flowmeter Type SE36 + S077 consists of a flow transmitter Type SE36 and an Inline sensor-fitting Type S077.

See data sheet Type S077 > for more information.

Two or three different components must be ordered in order to select a complete device. The following information is required:

- Article no. of the compact Type SE36 flow transmitter available with or without display/configuration module (see chapter "9.4. Ordering chart" on page 11)
- Article no. of the removable display/configuration module, if necessary (see chapter "9.5. Ordering chart accessories" on page 11)
- Article no. of the selected Type S077 Inline sensor-fitting (see data sheet Type S077 )

### 9.3. Bürkert product filter

Pracess Con	rection	Voltage / Frequency	Process	Pressure / Sealing grature
Aberced Th	. (	Column al litera		
Nominal pressure min	•	Nominal prossure ma		Nominal pressure may
Nominal protours min	•	Nominal prossure ma	x •	Nominal pressure may (gas)
Nominal pressure min		Nominal prossure ma	tx •	Nominal pressure map (gas) 2.5

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Jse the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter



### 9.4. Ordering chart

#### Transmitter Type SE36

#### Note:

- All settings as well as the digital output have to be configured with the display/configuration module (must be ordered separately).
- The following Article no.s. have a transparent cover as standard.

Operating	Output	UL approval	Electrical connection <sup>1.)</sup>	Artic	Article no.	
voltage				Without display/ configuration module	With display/ configuration module	
1436 V DC	2 outputs:	-	5-pin M12 male connector	560880 🛒	561880 🛒	
	1 x transistor NPN +1 × 420 mA (2 wires)	UL-Recognized		560883 ቛ	561883 ቛ	
	3 outputs:	-		560881 🛒	561881 🛒	
	2 x transistors NPN/PNP +1 × 420 mA (2 wires)	UL-Recognized		560884 🛒	561884 🛱	
1236 V DC	4 outputs: 2 x transistors NPN/PNP + 2 x 420 mA (3 wires)	-	5-pin M12 male and 5-pin M12 female connectors	560882 🛒	561882 🛒	
		UL-Recognized		560885 🧺	561885 🛱	

1.) Must be ordered separately (see chapter "9.5. Ordering chart accessories" on page 11): M12 male/female connectors (only 1 M12 female for the variant with one 4...20 mA output, 1 M12 male and 1 M12 female for the variant with two 4...20 mA outputs of the device)

### 9.5. Ordering chart accessories

Description	Article no.
Spare part	
Opaque cover with seal (1 screw cover with EPDM seal +1 quarter turn closing cover with silicone seal)	560948 🛒
Transparent cover with seal (1 screw cover with EPDM seal + 1 quarter turn closing cover with silicone seal)	561843 🛒
Electrical connection	
M12 female connector with plastic threaded clamping ring, 5-pin, straight, to be wired	917116 🛒
M12 male connector with plastic threaded clamping ring, 5-pin, straight, to be wired	560946 🛒
M12 female connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m	438680 ቛ
M12 male connector with moulded cable (shielded), 5-pin, straight, cable length: 2 m	559177 🛒
Configuration accessory	
Removable display/configuration module (with instruction sheet)	559168 🛒