



# Flow sensor for continuous flow measurement

- Economic integration in pipe systems without any additional piping
- Measuring principle: optic or magnetic
- Programmable output: 1 analog 4-20 mA and/or 1 transistor output (frequency or switch)
- Outputs programmable through interface on USB port (PC)

Type 8012 can be combined with...



Type 8025

universal transmitter

Type 2712 (8630)
Continuous
TopControl System



**Type 8611**Pl FlowController



Type 8032
Remote flow

controller



PLC

The paddle-wheel flow sensor for continuous flow measurement is especially designed for use in neutral, slightly aggressive, solid free liquids in its magnetic measuring version and for use in liquids which let pass the infra-reds in its optic measuring version. The sensor is made up of a fitting (Type S012) and an electronic module (Type SE12) connected together with screws. The Bürkert designed fitting system ensures simple installation of the sensor into all pipes from DN 06 to 50. It can also be installed in fluid block systems.

The sensor produces a programmable frequency pulse signal, proportional to the flow rate, which can easily be transmitted and processed by a Bürkert remote transmitter/indicator (type 8025/8032), or a programmable switch output or a 4-20 mA signal.

General data Compatibility with fittings S012 **Materials PPS** Housing Cable plug M12 (gland on request) Materials wetted parts Brass, stainless steel 1.4404/316L, PVC, PP or PVDF Fitting Paddle-wheel, holder **PVDF** Axis and bearing Ceramics (Al,O,) FKM (EPDM option) Electrical connection Cable plug M12-5pin (or with 1 m cable length, on request) **Connection cable** 1.5 mm<sup>2</sup> max, cross-section

| electronic module)   |
|--|
| 1/4" to 2" (DN 06 to 50)   |
| 1.0 f/s to 32.8 f/s (0.3 m/s to 10 m/s)  |
| optical (or magnetical paddle-wheel, on request)   |
| 32°F up to 140°F (0°C up to 60°C) 32°F up to 176°F (0°C up to 80°C) 5°F up to 212°F (-15°C up to 100°C) (if T°ambient ≤ 113°F (45°C)) or 5°F up to 194°F (-15°C up to 90°C) (if 113°F (45°C) ≤ T°ambient ≤ 140°F (60°C)) |
| 145 PSI (PN10) (with plastic fitting) 232 PSI (PN16) (with metal fitting)  |
| 300 cSt. max. / max. 1% (size of particles 0.5 mm max.)  |
| with standard K-factor $\leq \pm (0.5\% \text{ of FS.*} + 2.5\% \text{ of Reading})^{1)}$  |
| ≤ ±0.5% of FS.* (at 10 m/s)  |
| ≤ ±0.4% of Reading¹)   |
|  |

<sup>\*</sup> FS. = Full scale (10 m/s)

Under reference conditions i.e. measuring fluid = water, ambient and water temperature = 68°F (20°C), applying the min-imum inlet and outlet pipe straight, matched inside pipe dimensions.

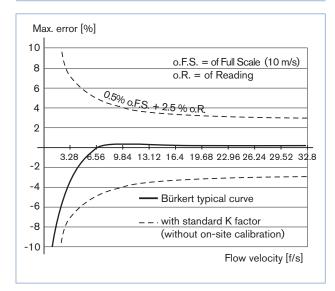


| Electrical data           |  |
|---------------------------|--|
| Power supply (V+)         | 12-36 V DC   |
| Current consumption       | < 60 mA (at 12 V DC for current version - without load)  |
| Reversed polarity of DC   | Protected  |
| Voltage peak              | Protected  |
| Short circuit             | Protected for transistor output  |
| Output                    |  |
| Transistor version        | Transistor NPN (default setting) / PNP (programmable on request), open collector, max. 700 mA, output NPN: 0.2-36 V DC (default setting) output PNP: V+ power supply frequency or switching mode |
| Current version           | 4-20 mA, sinking (default setting), image of flow velocity   |
| (programmable on request) | (default setting), programmable on request (sourcing mode); Loop impedance max.: 1125 $\Omega$ at 36 V DC; 650 $\Omega$ at 24 V DC; 140 $\Omega$ at 12 V DC                                      |

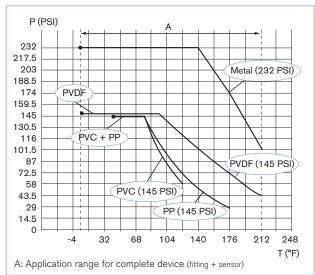
| Environment         |   |
|---------------------|---|
| Ambient temperature | 5°F up to 140°F (-15°C up to +60°C) (operating and storage) |
| Relative humidity   | ≤ 80%, non condensated                                      |

| Standards and approvals               |  |  |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|--|--|
| Protection class                      | IP67 with Multipin M12 (IP65 with cable)   |  |  |  |  |  |  |
| Standard<br>EMC<br>Vibration<br>Shock | EN 61000-6-3, EN 61000-6-2<br>EN 60068-2-6<br>EN 60068-2-27  |  |  |  |  |  |  |
| Approval / Certificate on request     | 3.1 Certificate; 2.2 Certificate; Rugosity Certificate; Calibration Certificate; FDA (with EPDM seal) - stainless steel fitting only |  |  |  |  |  |  |

# Accuracy diagram



# Pressure / temperature chart





#### Main features

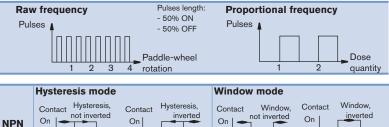
#### 8012 with optical (standard) or magnetical (on request) principle

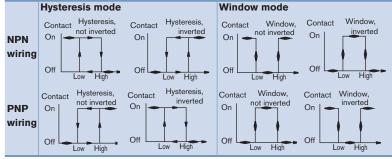
#### **Version with Transistor output**

Transistor output: NPN (standard) or PNP (on request) mode.

With one programmed transistor output mode (4 possibilities)

- Raw frequency (2 pulses per paddle-wheel rotation) (standard)
- Proportional frequency (1 pulse every determined volume) (on request)
- Switching mode
  - 2 switching modes for the output, either hysteresis or window, inverted or not, depending on transistor output version
  - Programmable delay before switching





Detection of flow direction - only with optical principle.

#### **Version with Transistor and current outputs**

#### Transistor output:

Same features described as above

#### **Current output:**

- with sinking (standard) or sourcing (on request) wiring
- > 8012 with programmable current output
  - 4-20 mA current corresponding to paddle-wheel frequency (0-250 Hz) (standard)
  - 4-20 mA current corresponding to a flow range (on request)

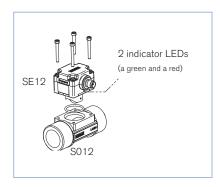


- Damping of fluctuation of current output through filter function
- Generation of an alarm current (22 mA) when fluid circulation is opposite to the direction indacated by the arrow on the side of the housing (only versions with optical principle) or when full scale has been exceeded (versions with optical or magnetical principle).



## Design and principle of operation

8012



The flow sensor 8012 is built up with an electronic module SE12 with integrated measurement paddle-wheel associated to a fitting S012. This connection is made by means of screws. In a 3-wire system, the signal can be displayed or processed directly. The output signal is provided via a cable plug M12-5 pin.

When liquid flows through the pipe, the paddle-wheel is set in rotation producing a measuring signal in the transducer. Two electronic module versions allow the following outputs:

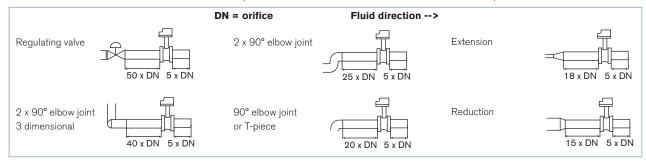
- with one pulse output (either NPN or PNP transistor output programmable). An external power supply of 12-36 V DC is required. This pulse output generates a signal which frequency is proportional to the flow velocity. It is designed for connection to any system with open collector NPN or PNP frequency input.
- with one 4-20 mA current output and one pulse output (either NPN or PNP transistor output program-mable). An external power supply of 12-36 V DC is required. The 4-20 mA output delivers a current which value is the image of the flow velocity.

The electronic module SE12 is equipped with 2 indicator LEDs, visible by transparency under the cable plug (standard) or on the opposite side of the cable plug (on request). When the device is energized, the green indicator LED lights up and then flashes proportionally to the rotation frequency of the paddle-wheel. The switch on of the red indicator LED indicates a malfunction of the device.

#### Installation

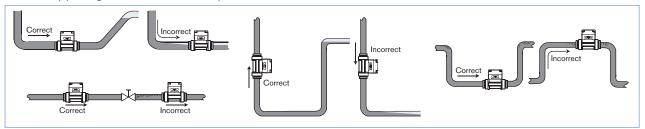
Minimum straight upstream and downstream distances must be observed. According to the pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best accuracy. For more information, please refer to EN ISO 5167-1.

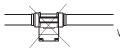
EN ISO 5167-1 prescribes the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most important layouts that could lead to turbulence in the flow are shown below, together with the associated prescribed minimum inlet and outlet distances. These ensure calm, problem-free measurement conditions at the measurement point.



The flow rate sensor can be installed in either horizontal or vertical pipes, but following additional conditions should be respected:

- always install the  $8012\ so$  that the paddle-wheel axis is horizontal.
- ensure the pipe is maintened full at all times, near the sensor
- ensure the pipe design does not allow the build-up of air bubbles or cavities within the medium, near the sensor





When installling the 8012 o an horizontal pipe, make sure the paddle-wheel is oriented down

Pressure and temperature ratings must be respected according to the selected fitting material.

The suitable pipe size is selected using diagram Flow / Velocity / DN.

The sensor is not designed for gas flow measurement.

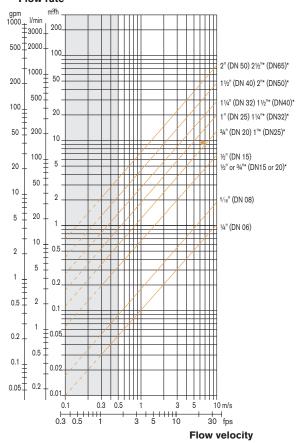
# burkert

# Selection of fitting / pipe size

#### Example:

- specification of nominal flow: 50 GPM
- ideal flow velocity: 6...8 f/s
- for these specifications, the diagram indicates a pipe size of 1 1/2" (DN40) [or 2" (DN50) for (\*) mentioned fittings]

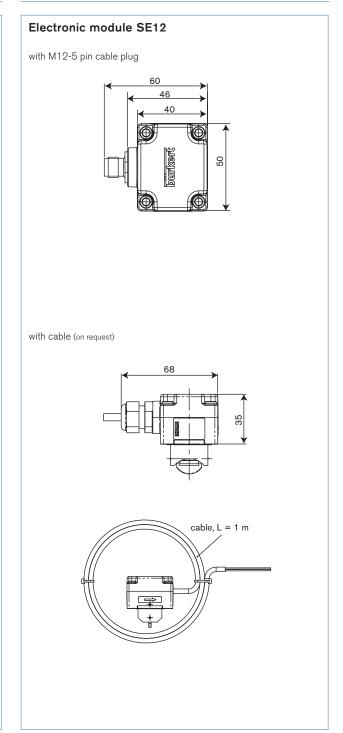
#### Flow rate



- \* for following fittings:
- with external threads acc. to SMS 1145
- with weld-ends acc. to SMS 3008, BS 4825 / ASME BPE or DIN 11850 Series 2
- TriClamp® acc. to SMS 3017 / ISO 2852, BS 4825 / ASME BPE or DIN 32676

 $\mathsf{Tri}\text{-}\mathsf{Clamp}^{\scriptscriptstyle{\otimes}}$  is a registered Trademark of Alfa Laval Inc.

# Dimensions electronic module SE12 [mm]



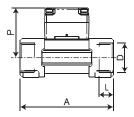


# **Dimensions sensor 8012**

# 8012 with internal thread connection

G, NPT, Rc

in stainless steel (316L - 1.4404) or brass (CuZn39Pb2)

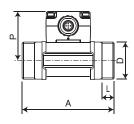


| DN   | Р    | A     | D                                | L                    |
|------|------|-------|----------------------------------|----------------------|
| [mm] | [mm] | [mm]  | [inch]                           | [mm]                 |
| 15   | 57.5 | 84.0  | G 1/2<br>NPT 1/2<br>Rc 1/2       | 16.0<br>17.0<br>15.0 |
| 20   | 55.0 | 94.0  | G 3/4<br>NPT 3/4<br>Rc 3/4       | 17.0<br>18.3<br>16.3 |
| 25   | 55.2 | 104.0 | G 1<br>NPT 1<br>Rc 1             | 23.5<br>18.0<br>18.0 |
| 32   | 58.8 | 119.0 | G 1 1/4<br>NPT 1 1/4<br>Rc 1 1/4 | 23.5<br>21.0<br>21.0 |
| 40   | 62.6 | 129.0 | G 1 1/2<br>NPT 1 1/2<br>Rc 1 1/2 | 23.5<br>20.0<br>19.0 |
| 50   | 68.7 | 148.5 | G 2<br>NPT 2<br>Rc 2             | 27.5<br>24.0<br>24.0 |

#### 8012 with external thread connection

G, NPT

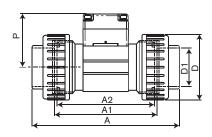
in stainless steel (316L - 1.4404), brass (CuZn39Pb2) or PVC



| DN   | Р    | A    | D                          | L         |      |
|------|------|------|----------------------------|-----------|------|
| [mm] | [mm] | [mm] | [inch]                     | [mm]      | [mm] |
| 06   | 52.5 | 90.0 | G 1/4 or 1/2               | -         | 14.0 |
| 08   | 52.5 | 90.0 | G 1/2<br>NPT 1/2<br>Rc 1/2 | M16 x 1.5 | 14.0 |

#### 8012 with True union connection

acc. to DIN 8063, ASTM, JIS in PVC



| DN   | Р    | D    | A           |       |     | D1          |      | A2    | A1   |      |
|------|------|------|-------------|-------|-----|-------------|------|-------|------|------|
| [mm] | [mm] | [mm] | DIN<br>8063 | ASTM  | JIS | DIN<br>8063 | ASTM | JIS   | [mm] | [mm] |
| 15   | 57.5 | 43   | 128         | 130.0 | 129 | 20          | 21.3 | 18.40 | 90   | 96   |
| 20   | 55.0 | 53   | 144         | 145.6 | 145 | 25          | 26.7 | 26.45 | 100  | 106  |
| 25   | 55.2 | 60   | 160         | 161.4 | 161 | 32          | 33.4 | 32.55 | 110  | 116  |
| 32   | 58.8 | 74   | 168         | 170.0 | 169 | 40          | 42.2 | 38.60 | 110  | 116  |
| 40   | 62.6 | 83   | 188         | 190.2 | 190 | 50          | 48.3 | 48.70 | 120  | 127  |
| 50   | 68.7 | 103  | 212         | 213.6 | 213 | 63          | 60.3 | 60.80 | 130  | 136  |

8012



# Ordering chart for sensor Type 8012 with optical measuring method, 12-36 V DC, M12-5pin

| Port<br>connection                      | Standard | Output*           | Item no.<br>DN 1/4"<br>1/4" port | Item no.<br>DN 1/4"<br>1/2" port | Item no.<br>DN 5/16"<br>1/2" port | Item no.<br>1/2" (DN15)<br>1/2" port | Item no.<br>3/4" (DN20)<br>3/4" port | Item no.<br>1" (DN25)<br>1" port | Item no.<br>1 1/4" (DN32)<br>1 1/4" port | Item no.<br>1 1/2" (DN40)<br>1 1/2" port | Item no.<br>2" (DN50)<br>2" port |
|---|----------|-------------------|----------------------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------------|--|--|----------------------------------|
| Brass - Temperature max. 212°F, 232 PSI |          |                   |                                  |                                  |                                   |                                      |                                      |                                  |  |  |                                  |
| Internal thread                         | G        | Pulse             | -                                | -                                | -                                 | 556 003                              | 556 004                              | 556 005                          | 556 006                                  | 556 007                                  | 556 008                          |
| mioma imoad                             | ISO 228  | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 012                              | 556 013                              | 556 014                          | 556 015                                  | 556 016                                  | 556 017                          |
|   | NPT      | Pulse             | -                                | -                                | -                                 | 556 018                              | 556 019                              | 556 020                          | 556 021                                  | 556 022                                  | 556 023                          |
|   |          | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 024                              | 556 025                              | 556 026                          | 556 027                                  | 556 028                                  | 556 029                          |
|   | Rc       | Pulse             | -                                | -                                | -                                 | 556 030                              | 556 031                              | 556 032                          | 556 033                                  | 556 034                                  | 556 035                          |
|   | (ISO7)   | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 036                              | 556 037                              | 556 038                          | 556 039                                  | 556 040                                  | 556 041                          |
| External thread                         | G        | Pulse             | 556 000                          | 556 001                          | 556 002                           | -                                    | -                                    | -                                | -  | -  | -                                |
|   | ISO 228  | Pulse + 4-20 mA   | 556 009                          | 556 010                          | 556 011                           | -                                    | -                                    | -                                | -  | -  | -                                |
| Internal thread                         | G        | Pulse             | -                                | -                                | -                                 | 556 045                              | 556 046                              | 556 047                          | 556 048                                  | 556 049                                  | 556 050                          |
| Internal thread                         | ISO 228  | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 054                              | 556 055                              | 556 056                          | 556 057                                  | 556 058                                  | 556 050                          |
|   | NPT      | Pulse             | _                                | _                                | _                                 | 556 061                              | 556 062                              | 556 063                          | 556 064                                  | 556 065                                  | 556 066                          |
|   | INI      | Pulse + 4-20 mA   | _                                | _                                | _                                 | 556 068                              | 556 069                              | 556 070                          | 556 071                                  | 556 072                                  | 556 073                          |
|   | Rc       | Pulse             | _                                |                                  |                                   | 556 074                              | 556 075                              | 556 076                          | 556 077                                  | 556 078                                  | 556 079                          |
|   | (ISO7)   | Pulse + 4-20 mA   | _                                | _                                | _                                 | 556 080                              | 556 081                              | 556 082                          | 556 083                                  | 556 084                                  | 556 085                          |
| External thread                         | (1007)   | Pulse             | 556 042                          | 556 043                          | 556 044                           | -                                    | -                                    | -                                | -  | -  | -                                |
| External triread                        | ISO 228  | Pulse + 4-20 mA   | 556 051                          | 556 052                          | 556 053                           | _                                    | _                                    | _                                | _  | _  | _                                |
|   | NPT      | Pulse             | -                                | -                                | 556 060                           | _                                    | _                                    | _                                | _  | _  | _                                |
|   |          | Pulse + 4-20 mA   | _                                | -                                | 556 067                           | -                                    | -                                    | -                                | -  | -  | -                                |
| PVC - Temper                            | ature ma | x. 140°F, 145 PSI |                                  |                                  | 000 00.                           |                                      |                                      |                                  |  |  |                                  |
| True union                              | DIN      | Pulse             |                                  |                                  |                                   | 556 088                              | 556 089                              | 556 090                          | 556 091                                  | 556 092                                  | 556 093                          |
|   | 8063     | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 094                              | 556 095                              | 556 096                          | 556 097                                  | 556 098                                  | 556 099                          |
|   | ASTM     | Pulse             | -                                | -                                | -                                 | 556 100                              | 556 101                              | 556 102                          | 556 103                                  | 556 104                                  | 556 105                          |
|   |          | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 106                              | 556 107                              | 556 108                          | 556 109                                  | 556 110                                  | 556 111                          |
|   | JIS      | Pulse             | -                                | -                                | -                                 | 556 112                              | 556 113                              | 556 114                          | 556 115                                  | 556 116                                  | 556 117                          |
|   |          | Pulse + 4-20 mA   | -                                | -                                | -                                 | 556 118                              | 556 119                              | 556 120                          | 556 121                                  | 556 122                                  | 556 123                          |
| External thread                         | G        | Pulse             | -                                | 556 086                          | 556 124                           | -                                    |                                      | -                                | -  | -  | -                                |
|   | ISO 228  | Pulse + 4-20 mA   | -                                | 556 087                          | 556 125                           | -                                    | -                                    | -                                | -  | -  | -                                |

<sup>\*</sup> Factory setting:

- pulse NPN (raw frequency)
- pulse NPN (raw frequency) + 4-20 mA (sinking mode, 0-250 Hz)
- other programmations on request

# Further versions on request

Port connection

Weld ends, Tri-Clamp®, Flange, spigot... connection

Materials PP, PVDF...

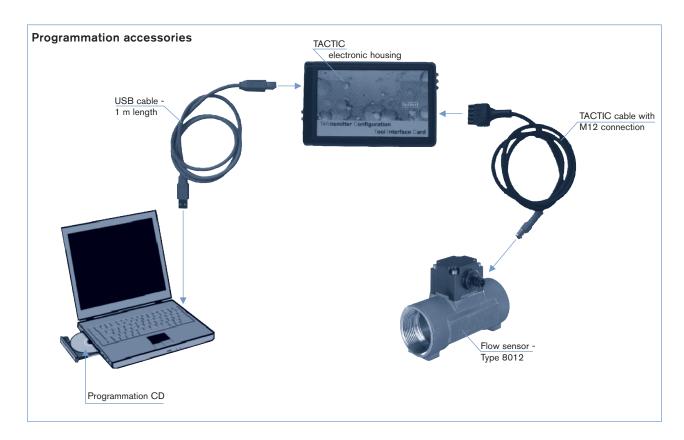
Please also use the "request for quotation" form on page 12 for ordering further version of the sensor Type 8012.



# Ordering chart for accessories for sensor Type 8012 (to be ordered separately)

| Specifications   | Item no. |
|--|----------|
| 4 short screws (M4 x 35 - A4) + 4 long screws (M4 x 60 - A4)   | 555 775  |
| 5 pin M 12 female connector moulded on cable (2 m, shielded)   | 438 680  |
| 5 pin M 12 female cable connector with plastic threaded locking ring   | 917 116  |
| Programmation tool TACTIC (1-m length USB cable + 1 TACTIC cable with M12 connection + 1 TACTIC electronic housing + 1 programmation CD) | 556 500  |
| Connecting cables: 8012-TACTIC and TACTIC-PC (1-m length USB cable + 1 TACTIC cable with M12 connection)                                 | 556 160  |

| Specifications                        | Item no.<br>1/4" (DN06) | Item no.<br>5/16" (DN08) | Item no.<br>1/2" (DN15) | Item no.<br>3/4" (DN20) | Item no.<br>1" (DN25) | ltem no.<br>1 1/4" (DN32) | Item no.<br>1 1/2" (DN40) | Item no.<br>2" (DN50) |
|---------------------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-----------------------|---------------------------|---------------------------|-----------------------|
| O-ring set for metal fitting - FKM    | 426 340                 | 426 340                  | 426 340                 | 426 340                 | 426 340               | 426 340                   | 426 340                   | 426 340               |
| O-ring set for metal fitting - EPDM   | 426 341                 | 426 341                  | 426 341                 | 426 341                 | 426 341               | 426 341                   | 426 341                   | 426 341               |
| O-ring set for plastic fitting - FKM  | -                       | 448 679                  | 431 555                 | 431 556                 | 431 557               | 431 558                   | 431 559                   | 431 560               |
| O-ring set for plastic fitting - EPDM | -                       | 448 680                  | 431 561                 | 431 562                 | 431 563               | 431 564                   | 431 565                   | 431 566               |





# Flow sensor Type 8012 possibilities

#### A flow sensor Type 8012 consists of:

- a sensor electronic module SE12 with either optical or magnetical measuring principle, with only pulse output or with both pulse and 4-20 mA current outputs programmed in **standard** (see ordering chart Type SE12) or **customized** (see specifications sheet on last page). The electrical connection is carried out through multipin M12-5 or 1 m cable.
- a fitting Type S012 available in different materials providing many installation options of the sensor electronic module into all pipes, ranging from DN6 to DN50, due to the large range of connections (see specifications sheet on last page).
- screws and O-ring (see left-hand page ordering chart for accessories).

The following charts indicate the different possibilities:

#### Sensor electronic module Type SE12 (standard programmed)

| Specifications | Voltage<br>supply | Pipe<br>connection | Output*                            | Connector           | Item no. |
|----------------|-------------------|--------------------|------------------------------------|---------------------|----------|
| Magnetical     | 12-36 V DC        | 1/4" and 5/16"     | Frequency with pulse NPN           | Cable plug M12-5pin | 557 054  |
| measuring      |                   | (DN06 and DN08)    | Frequency with pulse NPN + 4-20 mA | Cable plug M12-5pin | 557 058  |
| principle      |                   |                    | Frequency with pulse NPN           | with 1 m cable      | 557 056  |
|                |                   |                    | Frequency with pulse NPN + 4-20 mA | with 1 m cable      | 557 060  |
|                |                   | 1/2" to 2"         | Frequency with pulse NPN           | Cable plug M12-5pin | 557 053  |
|                |                   | (DN15 to DN50)     | Frequency with pulse NPN + 4-20 mA | Cable plug M12-5pin | 557 057  |
|                |                   |                    | Frequency with pulse NPN           | with 1 m cable      | 557 055  |
|                |                   |                    | Frequency with pulse NPN + 4-20 mA | with 1 m cable      | 557 059  |
| Optical        | 12-36 V DC        | 1/4" and 5/16"     | Frequency with pulse NPN           | Cable plug M12-5pin | 557 062  |
| measuring      |                   | (DN06 and DN08)    | Frequency with pulse NPN + 4-20 mA | Cable plug M12-5pin | 557 066  |
| principle      |                   |                    | Frequency with pulse NPN           | with 1 m cable      | 557 064  |
|                |                   |                    | Frequency with pulse NPN + 4-20 mA | with 1 m cable      | 557 068  |
|                |                   | 1/2" to 2"         | Frequency with pulse NPN           | Cable plug M12-5pin | 557 061  |
|                |                   | (DN15 to DN50)     | Frequency with pulse NPN + 4-20 mA | Cable plug M12-5pin | 557 065  |
|                |                   |                    | Frequency with pulse NPN           | with 1 m cable      | 557 063  |
|                |                   |                    | Frequency with pulse NPN + 4-20 mA | with 1 m cable      | 557 067  |

<sup>\*</sup> Factory setting:

- pulse NPN (raw frequency)
- pulse NPN (raw frequency) + 4-20 mA (sinking mode, 0-250 Hz)
- other programmations on request

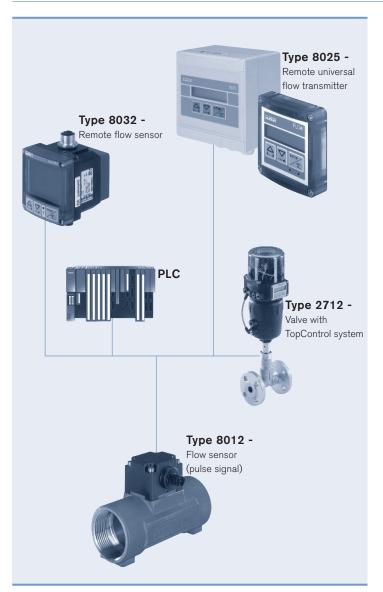
#### Fitting Type S012 (possibilities version)

| Port<br>connection | Materials                             | Available<br>1/4" (DN06) | Available<br>5/16" (DN08) | Available<br>1/2" (DN15) | Available<br>3/4" (DN20) | Available<br>1" (DN25) | Available<br>1 1/4" (DN32) | Available<br>1 1/2" (DN40) | Available<br>2" (DN50) | Available<br>2 1/2" (DN65) |
|--------------------|---------------------------------------|--------------------------|---------------------------|--------------------------|--------------------------|------------------------|----------------------------|----------------------------|------------------------|----------------------------|
| Internal thread    | Brass, stainless steel                | -                        | -                         | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | -                      | Yes                        |
| External thread    | Brass, stainless steel, PVC, PP, PVDF | Yes                      | Yes                       | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | -                          |
|                    | Stainless steel acc. SMS 1145         | -                        | -                         | -                        | -                        | Yes                    | -                          | Yes                        | Yes                    | -                          |
| Weld ends          | Stainless steel                       | -                        | Yes                       | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | Yes                        |
| Tri-Clamp®         | Stainless steel                       | -                        | Yes                       | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | Yes                        |
| Flange             | Stainless steel                       | -                        | -                         | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | -                          |
| True union         | PVC                                   | -                        | Yes                       | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | -                          |
|                    | PP, PVDF                              | -                        | -                         | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | -                          |
| Spigot             | PVC, PP, PVDF                         | -                        | -                         | Yes                      | Yes                      | Yes                    | Yes                        | Yes                        | Yes                    | -                          |

Note: Such new 8012 configuration should be ordered to your Bürkert Sales Center.

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# Interconnection possibilities with the sensor Type 8012







# Fluid block system for the sensor Type 8012

The modular concept of our sensor electronic module Type SE12 allows fully customized, pre-mounted and tested solutions to completely meet application needs. It is designed for being mounted in a system block, associated with other Bürkert products. This allows cost reduction and compact design for customized solutions.

Please contact your Bürkert local office to have individual counselling and engieneering support in order to find the best solution corresponding to your application.

