### For use with fitting S030, DN15-50 mm

- Turn & Lock bayonet fitting isolates sensor from media
- Economic integration in pipe systems
- 3-wire frequency version for direct connection to PLC (PNP and NPN)
- Connection to Bürkert evaluators in remote versions



Unique bayonet style flow meter constructed from an SE30 sensor and an S030 flow fitting. Perfect for neutral, solid free liquids. A hall-effect sensor produces a square wave frequency proportional to the flow rate.

### Technical Data (Standard)

General data	
Compatibility	With fittings S030 (see corresp. datasheet)
Materials Housing, cover, male fixed conn. Cable plug / seal / screws Wetted parts materials	PC PA / NBR / Stainless steel Brass staipless steel 1 4404/2161
Fitting, sensor armature Paddle wheel Axis, bearing / Seal	PVC, PP, PVDF PVDF Ceramics / FKM or EPDM ( depending on Sensor-Fitting version)
Electrical connection	Cable plug EN 175301-803 (Type 2508) (included in delivery)
Connection cable	max. 1.5 $\rm mm^2$ cross section; max. 50 m length, shielded
Complete device data (fitting + el	ectronic module)
Pipe diameter	DN06 to DN65
Measuring range	0.3 to 10 m/s
Medium temp. with fitting in PVC / PP Stainless steel, brass, PVDF	0 to 50°C / 0 to 80°C -15 to 100°C
Medium pressure max.	PN10 (with plastic fitting) PN16 (with metal fitting) (PN40 on request, see S030 data sheet)
Viscosity / Pollution	300 cSt. max. / max. 1% (Size of particles 0.5 mm max.)
<b>Measurement error</b> Teach-In Standard K-factor	$\pm1\%$ of Reading $^{1)}(at the teach flow rate value) \pm2.5\% of Reading ^{1)}$
Linearity	±0.5% of F.S.*1)
Repeatability	±0.4% of Reading <sup>1)</sup>
Environment	
Ambient temperature	-15 to + 60°C (5 to 140°F) (operating and storage)
Relative humidity	$\leq$ 80%, without condensation

\* F.S. = Full scale (10 m/s)

 <sup>1)</sup> Under reference conditions i.e. measuring fluid = water, ambient and water temperature = 20°C (68°F), applying the minimum inlet and outlet pipe straights, matched inside pipe dimensions.

### Envelope Dimensions [mm] (see datasheet for details)



#### Electrical data

12 - 36 V DC filtered and regulated (via Bürkert transmitter the device is connected for "Low Power" version)
with sensor ≤ 30 mA ≤ 0.8 mA
2 transistors NPN and PNP, open collector, max. 100 mA, frequency: 0 to 300 Hz; duty cycle 1/2 ±10% NPN output: 0.2-36 V DC PNP output: supply voltage 1 transistor NPN, open collector, max. 10 mA, frequency: 0 to 300 Hz; duty cycle 1/2 ±10%
2300 V AC
Protected
IP65 with connector plugged-in and tightened
EN 61000-6-2, 61000-6-3 Complying with article 3 of §3 from 97/23/ CE directive.* EN 60068-2-6 EN 60068-2-27

### Technical Data (Standard)

\* For the 97/23/CE pressure directive, the device can only be used under following conditions (dependent on max. pressure, pipe diameter and fluid).

Type of fluid	Conditions
Fluid group 1, §1.3.a	DN ≤ 25 only
Fluid group 2, §1.3.a	DN ≤ 32 or DN > 32 and PN*DN ≤ 1000
Fluid group 1, §1.3.b	PN*DN ≤ 2000
Fluid group 2, §1.3.b	DN ≤ 200

# Pressure/Temperature Diagram



### Installation

EN ISO 5167-1 prescribes the inlet and outlet distances that must be observed when installing fittings in pipe lines to achieve calm flow conditions. Below you will find the most important layouts that could lead to turbulence in the flow, and the associated prescribed minimum inlet and outlet distances.

Make sure that the measuring point is steady, to ensure good measuring conditions



## Ordering Chart

Description	Item no.
Hall	423 913
Hall (use with 8025)	423 914
Meter for High Temperatures *	449 694

\*see separate datasheet 8030, for high temperatures

Note: The electronic module, SE30 and the fitting, S030 must be ordered separately

### Options

- AS-i Connection
- Hygienic clamp and ASME weld end connections
- ANSI flange connection
- PVDF and PP fittings.
- High flow fittings (8020) to DN350 mm
- Various sealing materials
- Individual calibration certificate