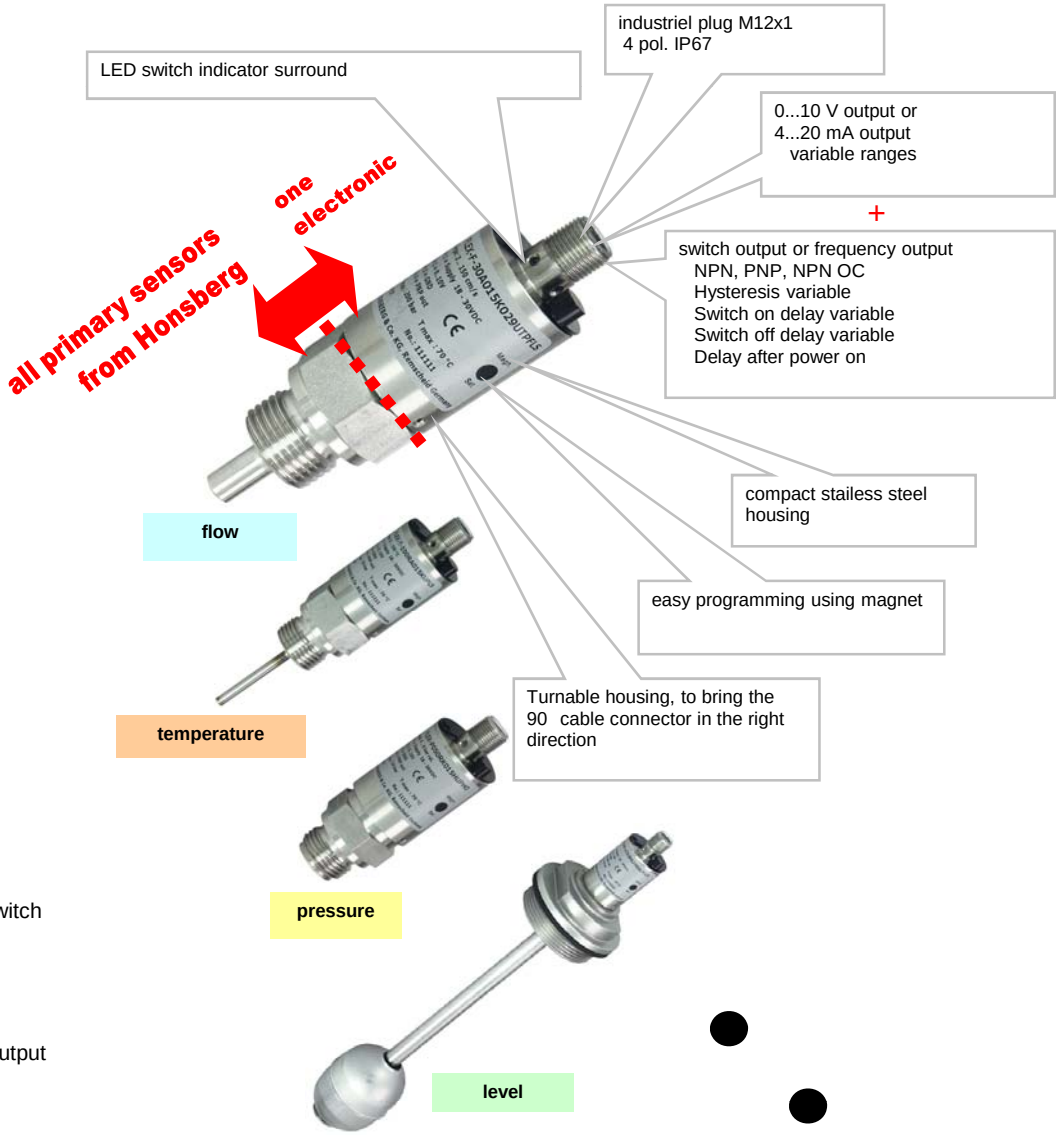
flow | **level** | **temperature** | **pressure**

Universal use as threshold alarm or/and transmitter.

The system comprises identical components for the various parameters in compact dimensions.

The advantages:

- 4..20 mA or 0..10 V output
- switch or frequency output pnp, npn
- LED switch indicator surround
- hysteresis variable
- switch on delay variable
- switch off delay variable
- delay subsequent to supply
- high level of variation selection
- easy programming using magnet
- M12x1 connector system
- identical handling of different sensors
- system mounting to all HONSBERG primary sensors (rotatable)
- stainless steel housing
- compact dimensions
- IP 67



analogue output
- 4..20mA or 0..10V

switch :
- PNP, NPN or
  NPN oc (open collector) switch
- min-, max-switch
  or frequency-output

flashing LED :
- yellow LED for switching output
  (ON = OK /OFF = alarm)

PROGRAMMING

A calibration magnet pinched to the instrument may be used to select the switch point or full scale of the analogue output. The calibration spot is clearly identified on the label.

SYSTEM OF INSTRUMENTS

The Flex-electronic linearised and conditions the primary signal to a standard 4..20 mA or 0..10 V output and offers a flexible switch alarm.

The sensor operate by a 16-bit processor, a 12-bid a/d and 12-bid d/a converter. Linearization and calibration is provided automatically. A flash memory guarantees interchange ability of all program parameters.

The signal options are pnp/npn transistor output or a frequency signal. The analogue output 4..20 mA or 0..10 V are available.

All signal configurations are subjected to highly modular selection schema by magnetic calibration.

Options available:

- variable span of analogue outputs
- variable hysteresis
- min or max switch
- inversion of output signal
- window function
- delay subsequent to voltage input
- switch delay (on/off)

The combination options of the Flex transducer

The Flex transducer is usable with a variety of mechanical sensor systems for flow, level, temperature and pressure. This has generated a sensor family which may serve miscellaneous applications.

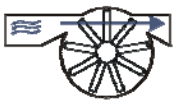
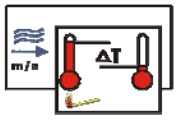
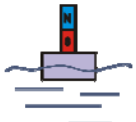
TECHNICAL DATA

supply voltage	typically 18..30V (see separate data sheets)
power consumption	typically <100mA (see separate data sheets)
measurement ranges	see separate data sheets
accuracy	typically 1% FS (see separate data sheets)
reproducibility	typically 0,1% FS (see separate data sheets)
operating temperature	-20..70°C
storage temperature	-20..80°C
signal output	4..20mA or 0..10V DC
switching output	transistor output, PNP or NPN (short circuit proof/ reverse polarity protected) Iout = 100mA max.
hysteresis	see separate data sheets
display	yellow LED for switching output (ON = OK /OFF = alarm)
connection	for locking plug M 12x1, 4pole
protection class	IP 67
material	see separate data sheets

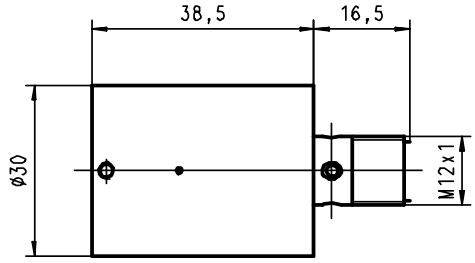
Hold magnet to the point and the actual value will be the switch point.

Flex-converter

combination

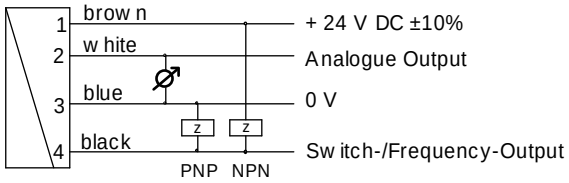
flow	piston inline design	
	rotor	
	turbine	
	gear wheel	
	calorimetric	
level	float	
temperature	PT100	
pressure	strain-gauge measuring bridge	

DIMENSIONS



primary sensor | Flex-electronic

TERMINAL ASSIGNMENT



Please you use shielded cable, signal lines < 30m and power supply lines < 10m.

MOUNTING

Please refer to the separate sensor description

ACCESSORIES

Locking plug M12x1

K	PU-	02	S	G	S		basic type / specification
K						●	assembled
KB04						●	self makable cable 4-pole
	PU-					●	material PUR
		02				●	length 2 m
		05				●	length 5 m
		10				●	length 10 m
			S			●	moulded-on plug
				G		●	straight plug
				W		●	angled plug 90°
					S	●	shielded

For detailed description please apply for full Flex-catalogue.