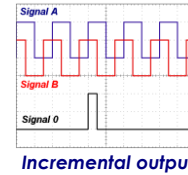
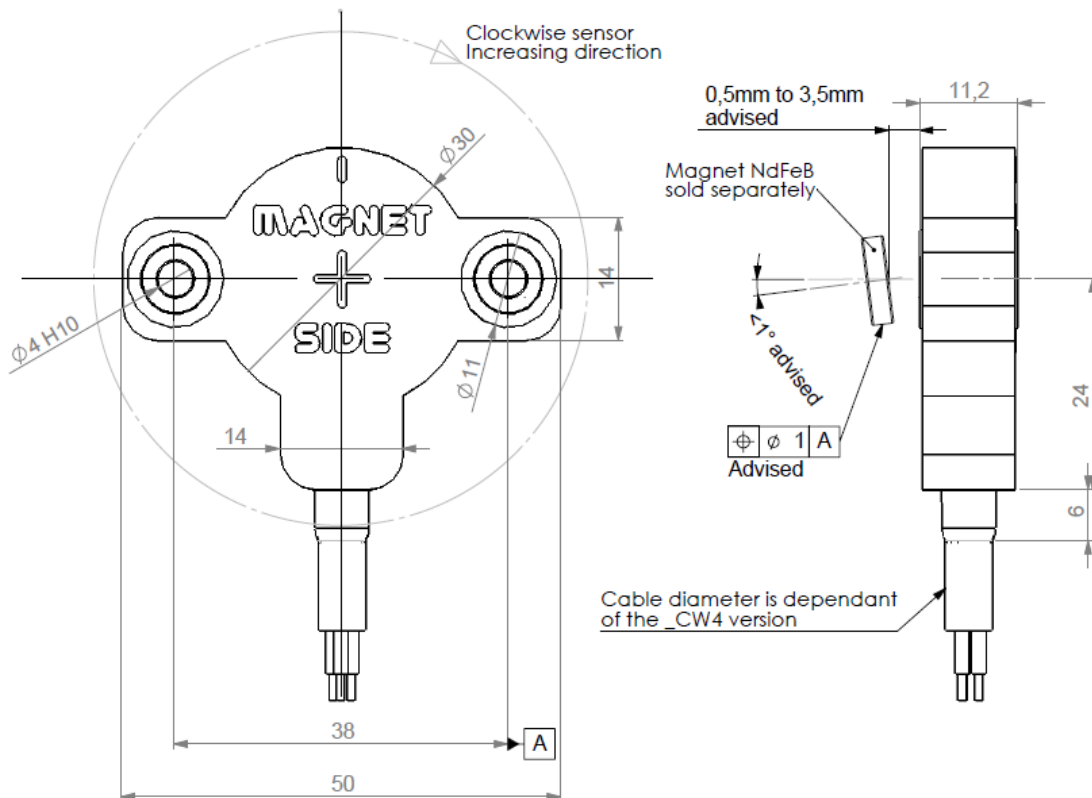


## MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE

- With its two-part design, the HCW4 incremental sensor offers maximum flexibility when installing it.
- Application fields : agriculture, construction, forestry vehicles, medical, solar panels...
- Robustness and excellent resistance to shocks / vibrations.
- Standard IP 67 protection (IP69K option).
- Operating temperature range: -40°C to 85°C (-40..+125°C option).
- Magnetic technology.
- Universal supply 5 to 30Vdc – incremental output.
- Available resolution up to 1024 points per revolution.
- Standard PVC or PUR cable output.



### STANDARD HCW4 DIMENSION



Shaft system with magnet to be ordered separately (cf specific data-sheet).

### MECHANICAL DATA

Material	Macromelt OM638	Protection	IP 67
Encoder weight (approx.)	0,100 kg	Shocks (EN60068-2-27)	≤ 2000m.s <sup>-2</sup> (during 6 ms)
Operating temperature	- 40... + 85 °C (encoder T°)	Vibrations (EN60068-2-6)	≤ 200m.s <sup>-2</sup> (55 ... 2 000 Hz)
Storage temperature	- 40... + 85 °C		

### ADAPTATION POSSIBILITY

BEI Sensors distinguishes itself by its flexible approach and ability to react to customers needs, with us no limit exists; we shall always try to supply you the product offering the best solution to your specifications.

**Modified mechanics:** Precision prototypes units, small and medium size. Units that will match themselves exactly to your mechanical configuration or to your dimensional constraints.

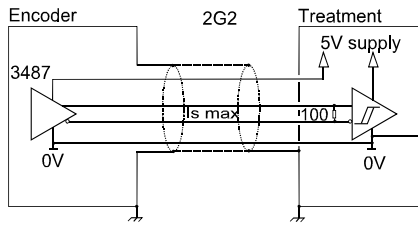
**Specific shaft system:** for example with integrated coupling.

**Send us your subset:** we can integrate our encoder into your subset and return you the complete assembly with the guarantee of an optimal mounting.

**Connection / Cable assemblies:** On the whole range of our sensors a wide selection of electrical connections are possible.

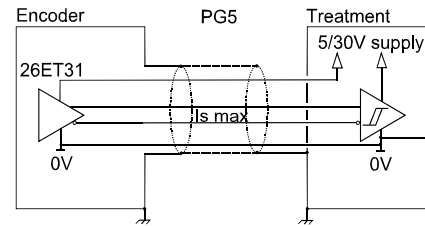
## MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE

### OUTPUT ELECTRONIC / POWER SUPPLY



#### 2G2 electronic (100kHz)

Supply : 5Vdc  $\pm$  10%  
Cons. without load : 40mA max  
Current per channel : 40mA max  
0 max (Is=20mA) :  $V_{ol} = 0,5Vdc$   
1 min (Is=20mA) :  $V_{oh} = 2,5Vdc$



#### PG5 electronic (100kHz)

Supply : 5 to 30Vdc  
Cons. without load : 40mA max  
Current per channel : 40mA max  
0 max (Is=20mA) :  $V_{ol} = 0,5Vdc$   
1 min (Is=20mA) :  $V_{oh} = V_{cc} - 2,5Vdc$

Protection against short circuits and inversion of polarity for the electronic PG5.

### STANDARD CONNECTION

		-	+	A	B	0	A/	B/	0/	Ground
G3	PVC cable 8 wires 8230/020	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	Main shield
GP	PUR cable 12 wires 8230/050	WH white + WH/GN white/green	BU blue + BN/GN brown / green	GY grey	BN brown	RD red	PK pink	GN green	BK black	General shielding

### ORDERING REFERENCE (Contact the factory for special versions , ex: stainless steel version, connections...)

	Mechanics	Supply Output stage	Signals	Resolution	Connection	Connection orientation
HCW4: Incremental encoder	00: Modular	2G2: 5Vdc TTL / RS422 output  PG5: 5 to 30Vdc Push-pull output (TTL / RS422 available if encoder supply is 5Vdc)	9: A, A/ B, B/ 0, 0/	1024 : max	G3 : PVC cable 8 wires  GP: PUR cable 12 wires	R020 : Radial cable 2m
Ex: HCW4_	00 //	PG5	9 //	01024 //	G3	R020

### AVAILABLE RESOLUTIONS

32 64 128 256 1024

Made in FRANCE