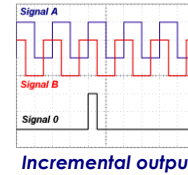
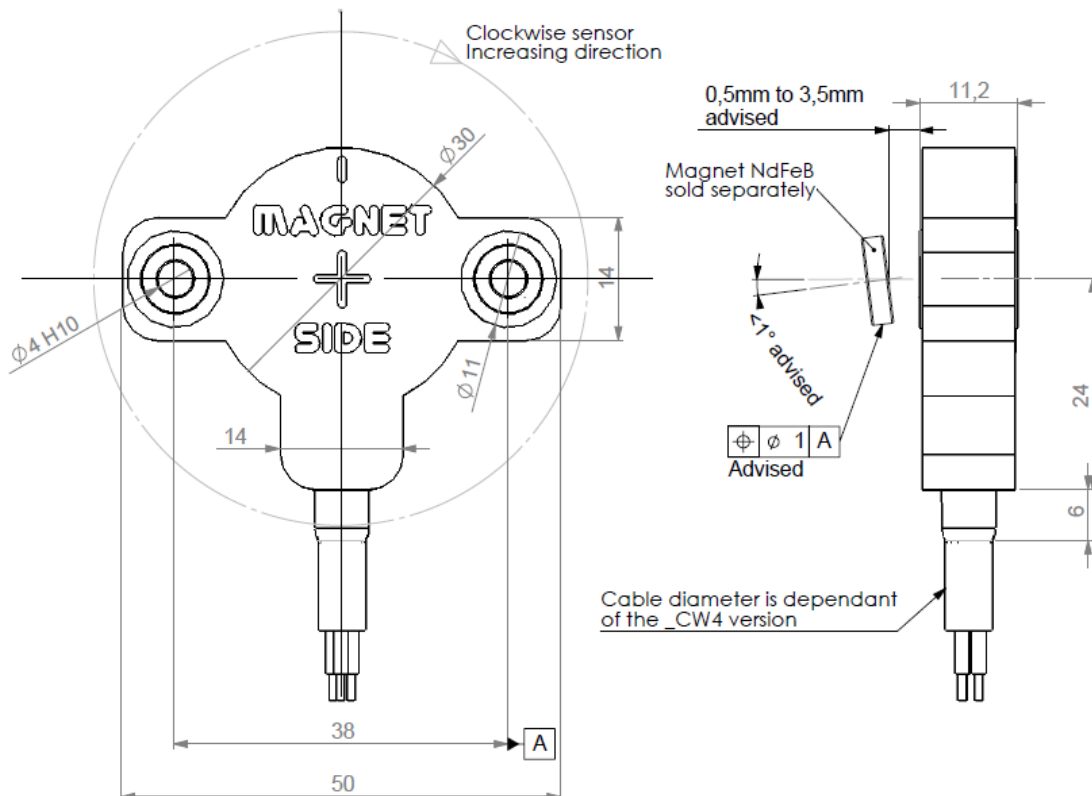


MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE

- 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) | $\leq 2000\text{m.s}^{-2}$ (during 6 ms) |
| Operating temperature | - 40... + 85 °C (encoder T°) | Vibrations (EN60068-2-6) | $\leq 200\text{m.s}^{-2}$ (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.

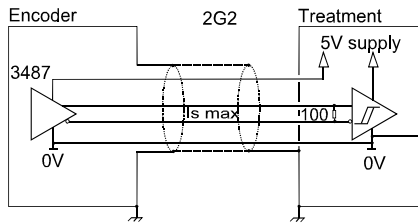
Specific shaft system: for example with integrated coupling.

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.

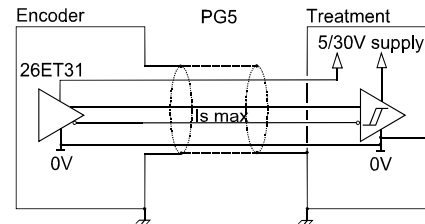
MAGNETIC INCREMENTAL MODULAR SENSORS, HCW4 RANGE

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