

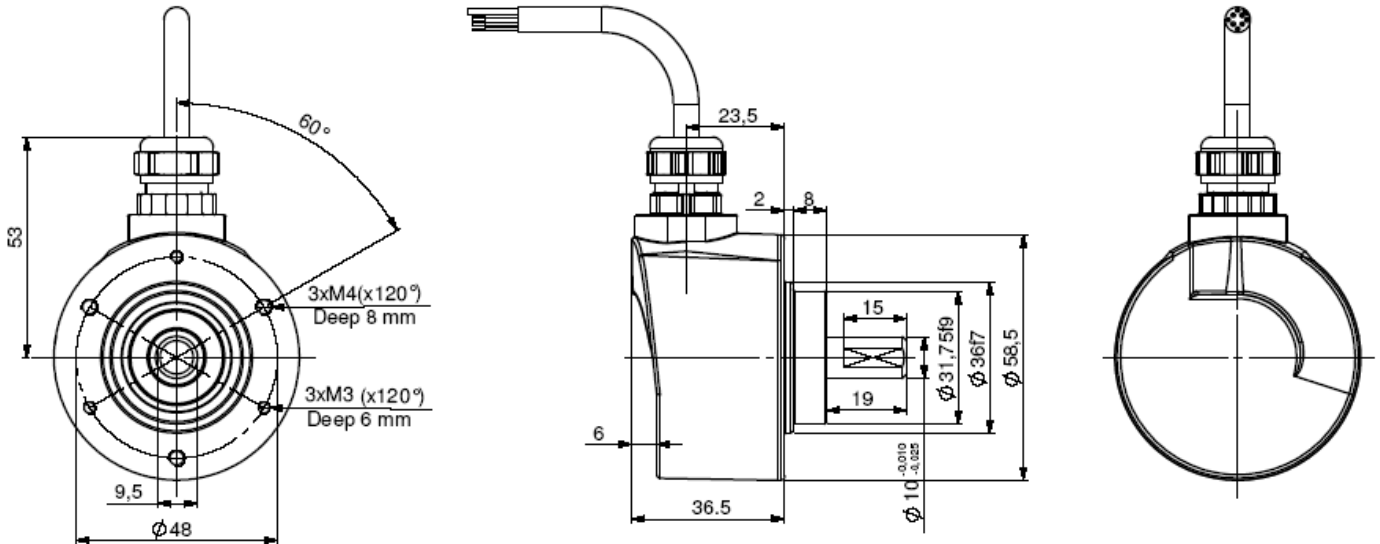
PARALLEL SINGLE TURN ABSOLUTE ENCODER, CHM5 RANGE

CHM5, the new generation of parallel absolute single turn encoders :

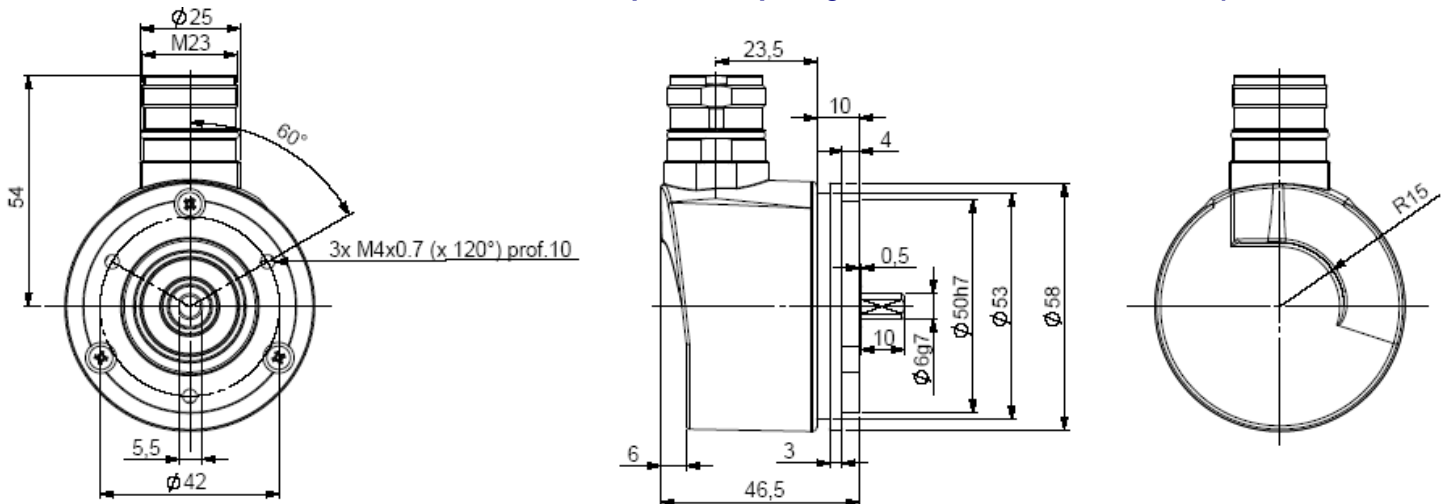
- Robustness and excellent resistance to shocks / vibrations
- High protection level IP65, IP67 option with a sealing flange
- High resolutions possibility: up to 15 bits (Gray or binary)
- Universal electronic circuits from 5 to 30 Vdc
- High performances in temperature -20°C to 90°C (option -40°C to 100°C)
- Standard DIRECTION entry, LATCH option



CHM5_10 connection C3R (radial cable)



CHM5_06 connection CPR / C1R (radial M23), flange 9500/003* mounted on the body



* Accessory to be ordered separately

| | | | |
|------------------------|--|---|---|
| Material | Cover : zinc alloy | Shocks (EN60068-2-27) | ≤ 500 m.s ⁻² (during 6 ms) |
| | Body: aluminium | Vibrations (EN60068-2-6) | ≤ 100 m.s ⁻² (10 ... 2 000 Hz) |
| | Shaft : stainless steel | EMC | EN 61000-6-4, EN 61000-6-2 |
| Bearings | 6 000 serie | Isolation | 1 000 Veff |
| Maximum loads | Axial : 50 N | Encoder weight (approx.) | 0,300 kg |
| | Radial : 100 N | Operating temperature | - 20 ... + 90 °C (encoder T°) |
| Shaft inertia | ≤ 1.10 ⁻⁶ kg.m ² | Storage temperature | - 40 ... + 100 °C |
| Torque | ≤ 4.10 ⁻³ N.m | Protection(EN 60529) | IP 65 (IP67 with flange option) |
| Permissible max. speed | 12 000 min ⁻¹ | Theoretical mechanical lifetime 10 ⁹ turns (F _{axial} / F _{radial}) | |
| Continuous max. speed | 9 000 min ⁻¹ | 25 N / 50 N : 99 | 50 N / 100 N : 12 |

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CONNECTION

| | color | 13 bits + DIRECTION CP or C3 | 14 bits + DIRECTION C1 |
|----|-----------------------|------------------------------------|------------------------------|
| 1 | white WH | 0V | 0V |
| 2 | brown BN | +Vcc | +Vcc |
| 3 | green GN | D0 | D0 |
| 4 | yellow YE | D1 | D1 |
| 5 | grey GY | D2 | D2 |
| 6 | pink PK | D3 | D3 |
| 7 | blue BU | D4 | D4 |
| 8 | red RD | D5 | D5 |
| 9 | black BK | D6 | D6 |
| 10 | violet VT | D7 | D7 |
| 11 | white/brown WH/BN | D8 | D8 |
| 12 | white/green WH/GN | D9 | D9 |
| 13 | white/yellow WH/YE | D10 | D10 |
| 14 | white/grey WH/GY | D11 | D11 |
| 15 | white/pink WH/PK | D12 | D12 |
| 16 | white/blue WH/BU | DIRECTION | D13 |
| 17 | White/red WH/RD | / | DIRECTION |

Example, 10 bits encoder : only MSB will be supplied (D3 to D12)

ORDERING REFERENCE (Contact the factory for special versions, ex: special flanges, connections, electronics...)

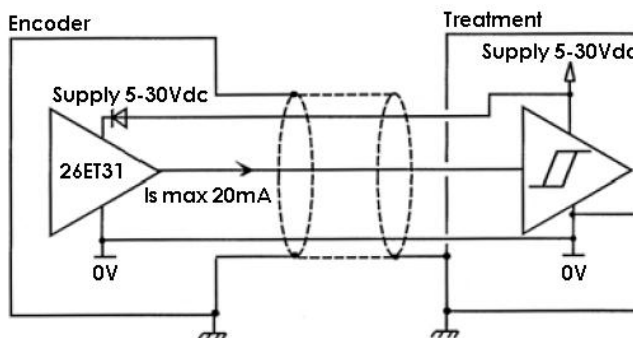
| | Shaft Ø | Supply | Output stage | Code | Resolution | Connection | Orientation |
|------|----------------------------|-------------------|---------------------------------|--------------------------------|--|--|--|
| CHM5 | 10 : 10mm | P : 5 to 30Vdc | C5 : push pull 5 to 30Vdc | B: Binary G: Gray | Power of 2: 1: 1 bit to 14: 14 bits | CP : M23 16 pins 13 bits + direction C1 : M23 17 pins 14 bits + direction | R : radial Example : R020 : radial cable 2m |
| | Max: 15 bits Consult us | | | | C3 : cable gland + 16 wires cable | | |
| CHM5 | 10 // | P | C5 | G // | 13 // | C3 | R020 |

Monitoring function available as option :

- of the code coherence
- of the LED internal regulated current loop
- of temperature range with 2 limits

Consult us

ELECTRONIC



Power supply : 5 to 30Vdc
Consumption without load : 100mA max
Current output per channel : Is=20mA max
Level '0' (Is=20mA) max : V_{oi} = 0,5Vdc
Level '1' (Is=20mA) min : V_{oh} = Vcc-2,5Vdc

Protection against short circuits and inversion of polarity

DIRECTION

CW increasing code: DIRECTION pin to +Vcc
CCW increasing code : DIRECTION pin to 0Vdc

LATCH (option)

Active data on the outputs : LATCH pin to 0V
Frozen data on the outputs: LATCH pin to +Vcc

Consult us for the connection of an encoder with this option

Made in FRANCE