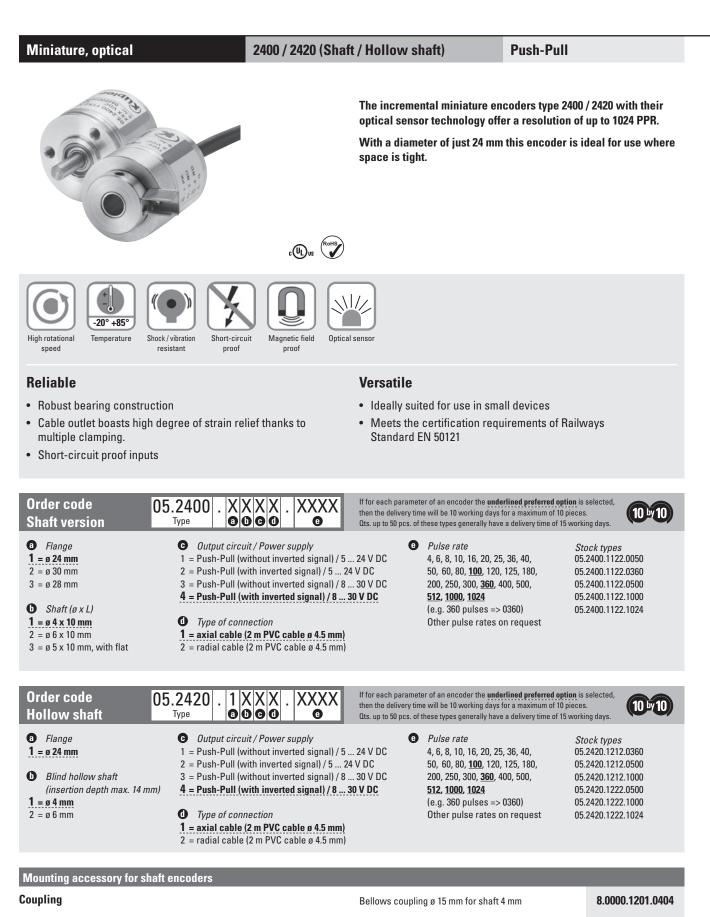
Incremental Encoders





Further accessories can be found in the Accessories section or in the Accessories area of our website at: www.kuebler.com/accessories. Additional connectors can be found in the Connection Technology section or in the Connection Technology area of our website at: www.kuebler.com/connection_technology.

Incremental Encoders



Miniature, optical

2400 / 2420 (Shaft / Hollow shaft)

Push-Pull

| Mechanical characteristic | s | | | | |
|-----------------------------------|-----------------------------------|---|--|--|--|
| Speed | | max. 12 000 min ⁻¹ | | | |
| Rotor moment of inertia | | approx. 0.1 x 10 ⁻⁶ kgm ² | | | |
| Starting torque | | < 0.01 Nm | | | |
| Shaft load capacity radial | | 10 N | | | |
| | axial | 20 N | | | |
| Weight | | approx. 0.06 kg | | | |
| Protection to EN 60529 | housing side | IP65 | | | |
| | flange side | IP50 (IP64 on request) | | | |
| Working temperature range | | -20°C +85°C | | | |
| Materials | shaft | stainless steel | | | |
| | hollow shaft | brass | | | |
| Shock resistance acc. to EN 600 | 1000 m/s², 6 ms | | | | |
| Vibration resistance acc. to EN 6 | 100 m/s ² , 55 2000 Hz | | | | |

| Electrical characteristics | | | | | | | |
|----------------------------------|---|-----------------------------|---------------------------|--|--|--|--|
| Output circuit | | Push-Pull (7272) 1) | Push-Pull (7272) 1) | | | | |
| Supply voltage | | 5 24 V DC ²⁾ | 8 30 V DC | | | | |
| Power consumption (no load) | | max. 50 mA | max. 50 mA | | | | |
| Permissible load / channel | | max. 50 mA | max. 50 mA | | | | |
| Pulse frequency | | max. 160 kHz | max. 160 kHz | | | | |
| Signal level | high | min. U _B - 2.5 V | min. U _B - 3 V | | | | |
| | low | max. 0.5 V | max. 0.5 V | | | | |
| Rising edge time t _r | | max. 1 µs | max. 1 µs | | | | |
| Falling edge time t _f | | max. 1 µs | max. 1 µs | | | | |
| Short circuit proof outputs | | yes | yes | | | | |
| UL-certified | | File 224618 | | | | | |
| CE compliant acc. t | nt acc. to EN 61000-6-2, EN 55011 Class B | | 11 Class B | | | | |
| RoHS compliant acc. to | | EU guideline 2002/95/EG | | | | | |

An independent test laboratory (TTI-PG115/96-01) approved by the German Accreditation Council (DAR) certified the compliance with the Railways Standard, according to EN 50121. This means our encoder is compatible with higher electromagnetic noise standards than standard industrial encoders.

You will have a higher quality encoder even in applications with higher EMC noise levels. We will gladly send you a copy of the test report on request. When ordering an encoder to the railway standard, please ensure you state this explicitly on the order.

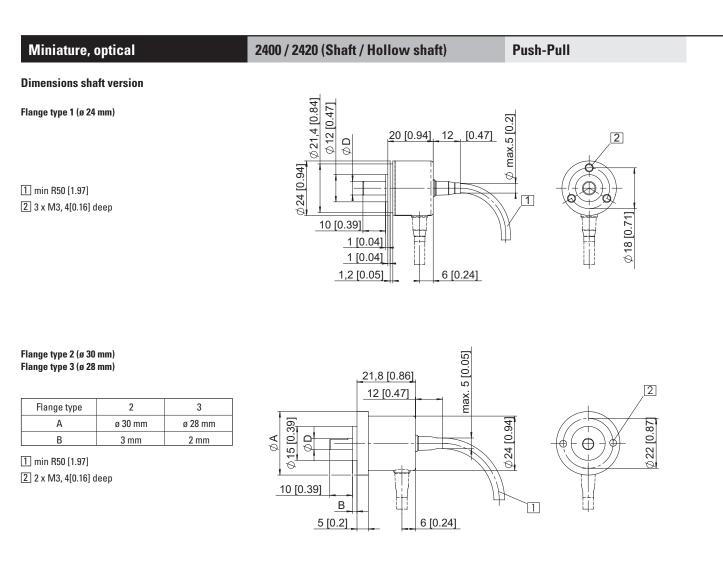


Terminal assignment

| Signal | 0V | +UB | Α | Ā | В | B | 0 | Ū |
|--------------------------------------|----|-----|----|----|----|----|----|----|
| Cable colour with inverted signal | WH | BN | GN | YE | GY | РК | BU | RD |
| Cable colour without inverted signal | WH | BN | GN | | YE | | GY | |

Max. recommended cable length 30 m
With 24 V DC there is no tolerance above 24 V DC. Please use output circuit 8 ... 30 V DC.

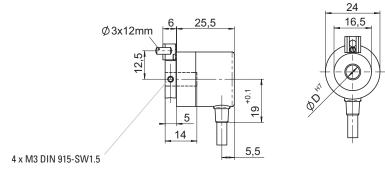
Incremental Encoders



Mounting advice:

The flanges and shafts of the encoder and drive should not both be rigidly coupled together at the same time! We recommend the use of suitable couplings (see Accessories section).

Dimensions hollow shaft version



Mounting advice:

The flanges and shafts of the encoder and drive should not both be rigidly coupled together at the same time! A cylindrical pin, for use as a torque stop, is supplied.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for kübler manufacturer:

Other Similar products are found below :

<u>05.2400.1122.0360</u> <u>3.167.211.075</u> <u>6.529.012.300</u> <u>05.2400.1122.0100</u> <u>3.100.200.383</u> <u>1.130.000.033</u> <u>1.150.510.013.550</u> <u>6.521.012.300</u> 1.132.101.033 1.150.510.012.550 3.102.101.383