

### Standard Type 5822



- Only 42 mm clearance needed
- Very easy mounting. The encoder is mounted directly on the drive shaft without couplings. This saves up to 30 % cost and 60 % clearance compared to shaft versions.
- Preferred model features; limited variations at economic pricing
- Temperature and ageing compensation
- Short-circuit proof outputs
- Resolution up to 5000 ppr
- Protection up to IP 66
- available as explosion proof zone 2 and 22

#### Mechanical characteristics:

Speed <sup>1)</sup> :	max. 6000 min <sup>-1</sup>
Rotor moment of inertia:	approx. 6 x 10 <sup>-6</sup> kgm <sup>2</sup>
Starting torque:	< 0.05 Nm
Weight:	approx. 0.4 kg
Protection acc. to EN 60 529:	IP 65
Working temperature:	-20° C ... +70 °C <sup>2)</sup>
Operating temperature:	-20° C ... +70 °C <sup>2)</sup>
Shaft:	stainless steel, H7
Shock resistance acc. to DIN-IEC 68-2-27	2000 m/s <sup>2</sup> , 6 ms
Vibration resistance acc. to DIN-IEC 68-2-6:	100 m/s <sup>2</sup> , 10 ... 2000 Hz

<sup>1)</sup> For continuous operation max. 3000 min<sup>-1</sup> ventilated

<sup>2)</sup> Non-condensing

#### Pulse rates available at short notice:

10, 20, 25, 30, 50, 60, 100, 120, 125, 127, 150, 180, 200, 216, 240, 250, 254, 256, 300, 314, 360, 375, 400, 500, 512, 600, 625, 720, 745, 750, 762, 800, 900, 927, 1000, 1024, 1250, 1270, 1400, 1500, 1800, 2000, 2048, 2250, 2400, 2500, 3000, 3600, 4000, 4096, 5000

Other pulse rates on request

#### Electrical characteristics RS 422 :

Output circuit:	RS 422 (TTL-compatible)	Push-pull	Push-pull
Supply voltage:	5 V (±5%)	10 ... 30 V DC	5 ... 30 V DC
Power consumption (no load) without inverted signal:	—	typ. 55 mA / max. 125 mA	typ. 55 mA / max. 125 mA
Power consumption (no load) with inverted signals:	typ. 70 mA / max. 90 mA	—	—
Permissible load/channel:	max. ±20 mA	max. ±30 mA	max. ±30 mA
Pulse frequency:	max. 300 kHz	max. 300 kHz	max. 300 kHz
Signal level high:	min. 2.5 V	min. U <sub>B</sub> -2.5 V	min. U <sub>B</sub> -1.5 V
Signal level low:	max. 0.5 V	max. 2.0 V	max. 2.0 V
Rise time t <sub>r</sub>	max. 200 ns	max. 1 μs	max. 1 μs
Fall time t <sub>f</sub>	max. 200 ns	max. 1 μs	max. 1 μs
Short circuit proof outputs: <sup>1)</sup>	yes <sup>2)</sup>	yes	yes
Reverse connection protection at UB:	no	yes	no
Conforms to CE requirements acc. to EN 61000-6-1, EN 61000-6-4 and EN 61000-6-3			

<sup>1)</sup> If supply voltage correctly applied

<sup>2)</sup> Only one channel allowed to be shorted-out:

(If UB=5 V, short-circuit to channel, 0 V, or +UB is permitted)



### Standard Type 5822

Order code:

8.5822.XXXX.XXXX

**Range**

**Bracket**

- 1 = Bracket for through shaft
- 2 = Bracket for blind hole shaft\*
- 3 = Bracket for through shaft and stator coupling**
- 4 = Bracket for blind hole shaft\* and stator coupling

\*length of drive shaft ≤ 30 mm

**Shaft**

- 6 = ∅ 10 mm
- 8 = ∅ 12 mm

Stock types	
8.5822.1611.0512	8.5822.1811.2048
8.5822.1611.1024	8.5822.1811.5000
8.5822.1651.1000	8.5822.1851.0500
8.5822.1651.2500	8.5822.1851.3600

*Preferred types are indicated in **bold***

**Pulse rate**  
(e.g. 250 pulses=> 0250)

**Type of connection**  
**1 = Cable radial (1 m PVC-cable)**

**Type of connection and supply voltage**

- 1 = RS 422 (with inverted signal) 5 V supply voltage**
- 2 = Push-pull (without inverted signal) 10 ... 30V supply voltage
- 3 = Push-pull (with inverted signal) 10 ... 30V supply voltage**
- 4 = RS 422 (with inverted signal) 10 ... 30 V supply voltage
- 5 = Push-pull (without inverted signal) 5 ... 30 V supply voltage
- 6 = Push-pull (with inverted signal) 5 ... 30 V supply voltage
- 7 = RS 422 (with inverted signal) 5 ... 30 V supply voltage

Rotary Measurement Technology  
Incremental Encoders

### Accessories

#### Mounting kit for hollow shaft encoder ∅ 58 mm:

Various mounting variations can be supplied

Delivery includes:

- 1 x cylindric pin with thread  
Ord.-No. 8.0010.4700.0000
- 1 x mounting bracket  
Art.-no. T.035.009
- Screw M3x5  
Ord.-No. N.630.305
- 1 x long torque support slot  
Ord.-No. T.051.672

Complete set:

Ord.-No. 8.0010.4600.0000

#### Stator coupling two wings

– For high dynamic application

Includes:

- 1x coupling two wings
- 2x 2 screws

#### Complete set:

Order-No.: 8.0010.4D00.0000  
(see page 315)

#### Tether arm short

Order-No.: 8.0010.4R00.0000  
(see page 316)