

## SENDIX 5000/5020 ENKODERY INKREMENTALNE

5000.8354.2000  
Enkoder

- Średnica zewnętrzna: od Ø 50,8 mm
- Maks. średnica wałka: Ø 12 mm. Maks. średnica otworu: Ø 15 mm
- Maks. rozdzielczość: 5000 imp./obr.
- Wyjście: RS422, Open Collector, Push-pull
- Safety-Lock™



### OPIS PRODUKTU

Dzięki Konstrukcji nośnej wykonanej przy zastosowaniu technologii Safety-Lock™, enkodery Sendix 5000/5020 Kübler gwarantują wysoką odporność na wibracje i błędy montażu. Solidna obudowa, stopień ochrony IP67, jak również szeroki zakres temperatury pracy- od -40°C do +85°C, czynią enkodery tej serii idealnymi do wszelkich zastosowań.

- Jeden dzień
- Milion wariantów
- Twój enkoder

# 24ONE

Firma Kübler wprowadziła do oferty serwis 24one dla enkoderów inkrementalnych Sendix 5000/5020. Umożliwia on produkcję wybranych enkoderów w dniu złożenia zamówienia bez dodatkowych kosztów.

W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

## Order code Shaft version

8.5000

Type

. XXXX .

XXXX

### a Flange

- 5 = synchro flange, IP66/IP67 ø 50.8 mm [2"]  
 6 = synchro flange, IP65 ø 50.8 mm [2"]  
 7 = clamping flange, IP66/IP67 ø 58 mm [2.28"]  
 8 = clamping flange, IP65 ø 58 mm [2.28"]  
 A = synchro flange, IP66/IP67 ø 58 mm [2.28"]<sup>1)</sup>  
 B = synchro flange, IP65 ø 58 mm [2.28"]<sup>1)</sup>  
 C = square flange, IP66/IP67 □ 63.5 mm [2.5"]  
 D = square flange, IP65 □ 63.5 mm [2.5"]  
 G = Euroflansch, IP66/IP67 ø 115 mm [4.53"]<sup>2)</sup>

- 1 = servo flange, IP66/IP67 ø 50.8 mm [2"]<sup>3)</sup>  
 2 = servo flange, IP65 ø 50.8 mm [2"]<sup>3)</sup>  
 3 = square flange, IP66/IP67 □ 52.3 mm [2.06"]<sup>3)</sup>  
 4 = square flange, IP65 □ 52.3 mm [2.06"]<sup>3)</sup>  
 E = servo flange, IP66/IP67 ø 63.5 mm [2.5"]<sup>3)</sup>  
 F = servo flange, IP65 ø 63.5 mm [2.5"]<sup>3)</sup>

### b Shaft (ø x L), with flat

- 1 = ø 6 x 10 mm [0.24 x 0.39"]  
 2 = ø 1/4 x 5/8" (6.35 x 15.875 mm)  
 6 = ø 8 x 15 mm [0.32 x 0.59"]  
 3 = ø 10 x 20 mm [0.39 x 0.79"]  
 4 = ø 3/8 x 5/8" (9.5 x 15.875 mm)  
 B = ø 11 x 33 mm [0.43 x 1.30"], with feather key shaft slot<sup>4)</sup>  
 5 = ø 12 x 20 mm [0.47 x 0.79"]

- 7 = ø 1/4 x 7/8"<sup>3)</sup>  
 8 = ø 3/8 x 7/8"<sup>3)</sup>

### c Output circuit / power supply

- 4 = RS422 (with inverted signal) / 5 V DC  
 1 = RS422 (with inverted signal) / 5 ... 30 V DC  
 2 = push-pull (7272 compatible with inverted signal) / 5 ... 30 V DC  
 5 = push-pull (with inverted signal) / 10 ... 30 V DC  
 7 = push-pull (without inverted signal) / 10 ... 30 V DC<sup>5)</sup>  
 3 = open collector (with inverted signal) / 5 ... 30 V DC<sup>3)</sup>  
 8 = push-pull (7272 with inverted signal), without capacitor / 5 ... 30 V DC<sup>1) 3) 6)</sup>

### d Type of connection – cable

- 1 = axial cable, 1 m [3.28'] PVC  
 A = axial cable, special length PVC \*)  
 2 = radial cable, 1 m [3.28'] PVC  
 B = radial cable, special length PVC \*)

### Type of connection – connector

- P = axial M12 connector, 5-pin<sup>7)</sup>  
 R = radial M12 connector, 5-pin<sup>7)</sup>  
 3 = axial M12 connector, 8-pin  
 4 = radial M12 connector, 8-pin  
 7 = axial M23 connector, 12-pin  
 8 = radial M23 connector, 12-pin  
 Y = radial MIL connector, 10-pin  
 W = radial MIL connector, 7-pin

- 9 = radial MIL connector, 6-pin<sup>3)</sup>

### Type of connection – connector with cable

- L = radial cable with M12 connector, 8-pin, special length PVC \*)  
 M = radial cable with M23 connector, 12-pin, special length PVC \*)  
 N = radial cable with Sub-D connector, 9-pin, special length PVC \*)

\*) Available special lengths (connection types A, B, L, M, N:  
 0.3, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20 m [0.98, 1.64, 3.28, 6.56, 9.84,  
 13.12, 16.40, 19.69, 26.25, 32.80, 39.37, 49.21, 65.62']  
 order code expansion .XXXX = length in dm  
 ex.: 8.5000.814A.1024.0030 (for cable length 3 m)

### e Pulse rate

- 1, 2, 4, 5, 10, 12, 14, 20, 25, 28, 30, 32, 35, 50, 60, 64, 80, 100, 120, 125,  
 150, 180, 200, 240, 250, 256, 300, 342, 360, 375, 400, 500, 512, 600,  
 625, 720, 800, 900, 1000, 1024, 1200, 1250, 1500, 1800, 2000, 2048,  
 2500, 3000, 3600, 4000, 4096, 5000  
 (e.g. 100 pulses => 0100)

### Optional on request

- other pulse rates
- Ex 2/22<sup>8)</sup>
- surface protection salt spray

Salt spray tested as standard type  
 (deliverable as from 1 unit)



8.5000.73X4.XXXX-C

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|
| <b>Order code</b><br><b>Hollow shaft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>8.5020</b><br>Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>. XXXXX .</b><br>a b c d e | <b>XXXX</b><br>e |
| <b>a Flange</b><br><b>1 = with spring element, long, IP66/IP67</b><br><b>2 = with spring element, long, IP65</b><br><b>3 = with torque stop, long, IP66/IP67</b><br><b>4 = with torque stop, long, IP65</b><br><b>7 = with stator coupling, IP66/IP67 ø 65 mm [2.56"]</b><br><b>8 = with stator coupling, IP65 ø 65 mm [2.56"]</b><br><b>C = with stator coupling, IP66/IP67 ø 63 mm [2.48"]</b><br><b>D = with stator coupling, IP65 ø 63 mm [2.48"]</b><br><br>5 = with stator coupling, IP66/IP67 ø 57.2 mm [2.25"] <sup>1)</sup><br>6 = with stator coupling, IP65 ø 57.2 mm [2.25"] <sup>1)</sup> |  | <b>d Type of connection – cable</b><br><b>1 = radial cable, 1 m [3.28'] PVC</b><br>A = radial cable, special length PVC *)<br><b>E = tangential cable, 1 m [3.28'] PVC</b><br>F = tangential cable, special length PVC *)<br><br>Type of connection – connector<br>R = radial M12 connector, 5-pin <sup>4)</sup><br><b>2 = radial M12 connector, 8-pin</b><br><b>4 = radial M23 connector, 12-pin</b><br>6 = radial MIL connector, 7-pin<br><b>7 = radial MIL connector, 10-pin</b><br><br>Type of connection – connector with cable<br>H = tangential cable, 0.3 m [0.98'] PVC, incl. M12 connector, 8-pin for central fastening<br>L = tangential cable with M12 connector, 8-pin, special length PVC *)<br>M = tangential cable with M23 connector, 12-pin, special length PVC *)<br>N = tangential cable with Sub-D connector, 9-pin, special length PVC *)<br><br>*) Available special lengths (connection types A, F, L, M, N):<br>0.3, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20 m [0.98, 1.64, 3.28, 6.56, 9.84, 13.12, 16.40, 19.69, 26.25, 32.80, 39.37, 49.21, 65.62']<br>order code expansion .XXXX = length in dm<br>ex.: 8.5020.234A.1024.0030 (for cable length 3 m) |                               |                  |
| <b>b Through hollow shaft</b><br>1 = ø 6 mm [0.24"]<br>2 = ø 1/4"<br><b>9 = ø 8 mm [0.32"]</b><br>4 = ø 3/8"<br><b>3 = ø 10 mm [0.39"]</b><br><b>5 = ø 12 mm [0.47"]</b><br>6 = ø 1/2"<br>A = ø 14 mm [0.55"]<br><b>8 = ø 15 mm [0.59"]</b><br>7 = ø 5/8"                                                                                                                                                                                                                                                                                                                                              |  | <b>e Pulse rate</b><br><b>1 2 4 5 10 12 14 20 25 28 30 32 36 50 60 64 80 100 120 125 150 180 200 240 250 256 300 342 360 375 400 500 512 600 625 720 800 900 1000 1024 1200 1250 1500 1800 2000 2048 2500 3000 3600 4000 4096 5000</b><br>(e.g. 100 pulses => 0100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                  |
| <b>c Output circuit / power supply</b><br><b>4 = RS422 (with inverted signal) / 5 V DC</b><br><b>1 = RS422 (with inverted signal) / 5 ... 30 V DC</b><br><b>2 = push-pull (7272 compatible with inverted signal) / 5 ... 30 V DC</b><br><b>5 = push-pull (with inverted signal) / 10 ... 30 V DC</b><br>7 = push-pull (without inverted signal) / 10 ... 30 V DC <sup>3)</sup><br><br><b>3 = open collector (with inverted signal) / 5 ... 30 V DC <sup>1)</sup></b><br>8 = push-pull (7272 with inverted signal), without capacitor / 5 ... 30 V DC <sup>1) 2)</sup>                                  |  | Optional on request<br>- other pulse rates<br>- Ex 2/22 (not for type of connection E, F, H, L, M, N) <sup>5)</sup><br>- surface protection salt spray<br><br>Salt spray tested as standard type<br>(deliverable as from 1 unit)<br> 8.5020.18X2.XXXX-C<br>8.5020.1AX2.XXXX-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                  |

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# SPECYFIKACJA TECHNICZNA

|                            |                  |
|----------------------------|------------------|
| Liczba impulsów max        | 5000             |
| Max. temperatura pracy     | 85 °C            |
| Min. temperatura pracy     | -40 °C           |
| Montaż                     | Wał              |
| Napięcie zasilania DC max. | 30 V DC          |
| Napięcie zasilania DC min. | 5 V DC           |
| Podłączenie                | Złącze M12       |
| Rozdzielczość              | 2000 pulses/turn |
| Średnica obudowy           | 58 mm            |
| Średnica wałka             | 10 mm            |
| Stopień ochrony IP         | IP65             |

|              |               |
|--------------|---------------|
| Typ czujnika | Inkrementalny |
| Wersja       | Wielobrotowy  |
| Wyjście      | Push/Pull     |

