

## SENDIX M3661/3681 MAGNETYCZNY, WIELOBROTOWY, ANALOG, Ø36 MM

Enkodery wielobrotowe absolutne magnetyczne

SERIE M3661

- Średnica zewnętrzna: Ø 36 mm
- Maks. średnica wałka: Ø 10 mm. Maks. średnica otworu: Ø 10 mm
- Maks. rozdzielczość: 16 bitów
- Analog 4-20mA, 0-5V, 0-10V
- Safety-Lock™



### OPIS PRODUKTU

Energy Harvesting Technology (Technologia Odzysku Energii) w enkoderach absolutnych wielobrotowych magnetycznych sendix M36 Kubler sprawia, że enkodery serii M36 są szczególnie wytrzymałe, niezawodne i optymalne kosztowo. Kompaktowy rozmiar, tylko 36mm średnicy zapewnia możliwość montażu przy niewielkiej ilości miejsca, a stopień ochrony IP67 zapewnia wyjątkową szczelność.

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

| Order code                                                                                                                                                                                                                 | 8.M3661 | .XXXX   | .XX12 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------|
| Shaft version                                                                                                                                                                                                              | Type    | a b c d | e f   |
| <b>a Flange</b>                                                                                                                                                                                                            |         |         |       |
| 1 = clamping flange, IP67, ø 36 mm [1.42"]                                                                                                                                                                                 |         |         |       |
| 3 = clamping flange, IP65, ø 36 mm [1.42"]                                                                                                                                                                                 |         |         |       |
| 2 = synchro flange, IP67, ø 36 mm [1.42"]                                                                                                                                                                                  |         |         |       |
| <b>4 = synchro flange, IP65, ø 36 mm [1.42"]</b>                                                                                                                                                                           |         |         |       |
| <b>b Shaft (ø x L), with flat</b>                                                                                                                                                                                          |         |         |       |
| 1 = ø 6 x 12.5 mm [0.24 x 0.49"]                                                                                                                                                                                           |         |         |       |
| <b>3 = ø 8 x 15 mm [0.32 x 0.59"]</b>                                                                                                                                                                                      |         |         |       |
| 5 = ø 10 x 20 mm [0.39 x 0.79"]                                                                                                                                                                                            |         |         |       |
| 2 = ø 1/4" x 12.5 mm [0.49"]                                                                                                                                                                                               |         |         |       |
| <b>c Output circuit <sup>1)</sup></b>                                                                                                                                                                                      |         |         |       |
| <b>3 = current output</b>                                                                                                                                                                                                  |         |         |       |
| <b>4 = voltage output</b>                                                                                                                                                                                                  |         |         |       |
| <b>d Type of connection</b>                                                                                                                                                                                                |         |         |       |
| 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 *)                                                                                                                                                                                    |         |         |       |
| 3 = axial M12 connector, 5-pin                                                                                                                                                                                             |         |         |       |
| <b>4 = radial M12 connector, 5-pin</b>                                                                                                                                                                                     |         |         |       |
| *) Available special lengths (connection types A, B):<br>2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']<br>order code expansion .XXXX = length in dm<br>ex.: 8.M3661.433A.3112.0030 (for cable length 3 m) |         |         |       |
| <b>e Interface / resolution / power supply</b>                                                                                                                                                                             |         |         |       |
| <b>3 = 4 ... 20 mA / 12 bit / 10 ... 30 V DC</b>                                                                                                                                                                           |         |         |       |
| <b>4 = 0 ... 10 V / 12 bit / 15 ... 30 V DC</b>                                                                                                                                                                            |         |         |       |
| 5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC                                                                                                                                                                                    |         |         |       |
| <b>f Measuring range</b>                                                                                                                                                                                                   |         |         |       |
| <b>1 = 16 revolutions / ccw</b>                                                                                                                                                                                            |         |         |       |
| 2 = 16 revolutions / ccw                                                                                                                                                                                                   |         |         |       |
| 3 = scalable up to 65,536 revolutions,<br>with limit switch function / cw                                                                                                                                                  |         |         |       |
| 4 = scalable up to 65,536 revolutions,<br>without limit switch function / cw                                                                                                                                               |         |         |       |
| 5 = scalable up to 65,536 revolutions,<br>with limit switch function / ccw                                                                                                                                                 |         |         |       |
| 6 = scalable up to 65,536 revolutions,<br>without limit switch function / ccw                                                                                                                                              |         |         |       |
| <b>Optional on request</b>                                                                                                                                                                                                 |         |         |       |
| - Ex 2/22 (only for connection types 3 and 4)                                                                                                                                                                              |         |         |       |
| - surface protection salt spray tested                                                                                                                                                                                     |         |         |       |

| Order code                                                                                                                                                                                                                 | 8.M3681 | .XXXX   | .XX12 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------|
| Hollow shaft                                                                                                                                                                                                               | Type    | a b c d | e f   |
| <b>a Flange</b>                                                                                                                                                                                                            |         |         |       |
| <b>2 = with stator coupling, IP65, ø 46 mm [1.81"]</b>                                                                                                                                                                     |         |         |       |
| 3 = with spring element, long, IP65                                                                                                                                                                                        |         |         |       |
| 5 = with stator coupling, IP67, ø 46 mm [1.81"]                                                                                                                                                                            |         |         |       |
| 6 = with spring element, long, IP67                                                                                                                                                                                        |         |         |       |
| <b>b Blind hollow shaft</b><br>(insertion depth max. 18.5 mm [0.73"])                                                                                                                                                      |         |         |       |
| 1 = ø 6 mm [0.24"]                                                                                                                                                                                                         |         |         |       |
| 3 = ø 8 mm [0.32"]                                                                                                                                                                                                         |         |         |       |
| <b>4 = ø 10 mm [0.39"]</b>                                                                                                                                                                                                 |         |         |       |
| 2 = ø 1/4"                                                                                                                                                                                                                 |         |         |       |
| <b>c Output circuit <sup>1)</sup></b>                                                                                                                                                                                      |         |         |       |
| <b>3 = current output</b>                                                                                                                                                                                                  |         |         |       |
| <b>4 = voltage output</b>                                                                                                                                                                                                  |         |         |       |
| <b>d Type of connection</b>                                                                                                                                                                                                |         |         |       |
| 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 *)                                                                                                                                                                                    |         |         |       |
| 3 = axial M12 connector, 5-pin                                                                                                                                                                                             |         |         |       |
| <b>4 = radial M12 connector, 5-pin</b>                                                                                                                                                                                     |         |         |       |
| *) Available special lengths (connection types A, B):<br>2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']<br>order code expansion .XXXX = length in dm<br>Ex.: 8.M3681.243A.3112.0030 (for cable length 3 m) |         |         |       |
| <b>e Interface / resolution / power supply</b>                                                                                                                                                                             |         |         |       |
| <b>3 = 4 ... 20 mA / 12 bit / 10 ... 30 V DC</b>                                                                                                                                                                           |         |         |       |
| <b>4 = 0 ... 10 V / 12 bit / 15 ... 30 V DC</b>                                                                                                                                                                            |         |         |       |
| 5 = 0 ... 5 V / 11 bit / 10 ... 30 V DC                                                                                                                                                                                    |         |         |       |
| <b>f Measuring range</b>                                                                                                                                                                                                   |         |         |       |
| <b>1 = 16 revolutions / ccw</b>                                                                                                                                                                                            |         |         |       |
| 2 = 16 revolutions / ccw                                                                                                                                                                                                   |         |         |       |
| 3 = scalable up to 65,536 revolutions,<br>with limit switch function / cw                                                                                                                                                  |         |         |       |
| 4 = scalable up to 65,536 revolutions,<br>without limit switch function / cw                                                                                                                                               |         |         |       |
| 5 = scalable up to 65,536 revolutions,<br>with limit switch function / ccw                                                                                                                                                 |         |         |       |
| 6 = scalable up to 65,536 revolutions,<br>without limit switch function / ccw                                                                                                                                              |         |         |       |
| <b>Optional on request</b>                                                                                                                                                                                                 |         |         |       |
| - Ex 2/22 (only for connection types 3 and 4)                                                                                                                                                                              |         |         |       |
| - surface protection salt spray tested                                                                                                                                                                                     |         |         |       |

SPECYFIKACJA TECHNICZNA

|                            |                                                |
|----------------------------|------------------------------------------------|
| Max. temperatura pracy     | 85 °C                                          |
| Min. temperatura pracy     | -40 °C                                         |
| Montaż                     | Wał                                            |
| Napięcie zasilania DC max. | 30 V DC                                        |
| Napięcie zasilania DC min. | 10 V DC                                        |
| Podłączenie                | Kabel, Złącze M12                              |
| Rozdzielczość              | 4-20 mA: 12 bit, 0-10 V: 12 bit, 0-5 V: 11 bit |
| Średnica obudowy           | 36 mm                                          |
| Średnica wału max          | 10 mm                                          |
| Średnica wału min          | 6 mm                                           |
| Stopień ochrony IP         | IP65, IP67                                     |
| Typ czujnika               | Absolutny                                      |
| Wersja                     | Wielobrotowy                                   |
| Wyjście                    | Analogowe                                      |

