

Inductive Shaft encoder, Absolute

- Certified according to ATEX and IECEx*
- 78 mm diameter
- 31 bit Multiturn resolution
- Inductive scanning
- Stainless steel A4, EN 1.4404/AISI 316L
- *Please refer to web page for other possible options/performances

OBSOLETE MODEL
CONTACT LEINE & LINDE



Mechanical data

| | |
|--------------------------------------|---|
| Operating temperature | -40 °C...+40 °C |
| Ingress protection class [IEC 60529] | IP 66 and IP 67 |
| Vibration [IEC 60068-2-64] | ≤ 20 g, 55-2000 Hz |
| Shock [IEC 60068-2-27] | 100 g, 11 ms / 200 g, 6 ms |
| Shaft load max (axial/radial) | 50 / 60 N |
| Rotational speed max | 3600 rpm |
| Shaft material | Stainless steel A4, AISI 316L/EN 1.4404 |
| Cover material | Stainless steel A4, AISI 316L/EN 1.4404 |
| Weight | 3000 g |
| Certification ATEX | EX II 2G Ex db IIC T6, EX II 2D Ex tb IIIC T85 °C |
| Certification IECEx | Ex db IIC T6, Ex tb IIIC T85 °C |

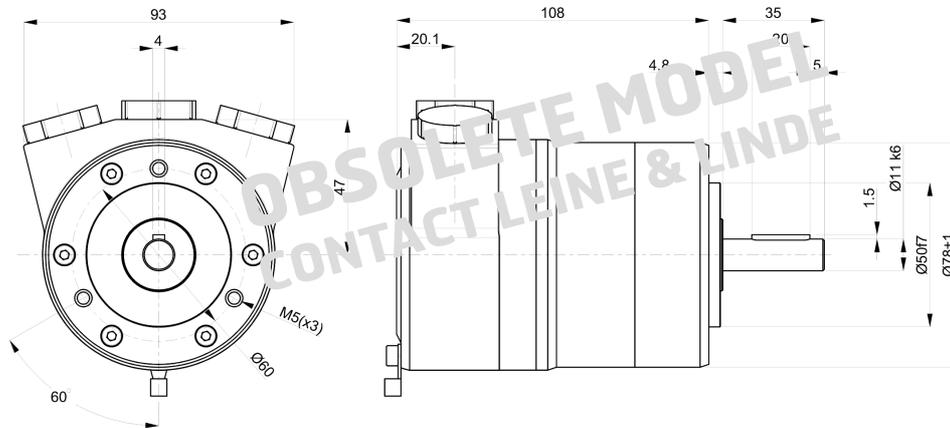
Encoder configuration

| | |
|----------------------|---|
| Code key | 648110110 |
| Type | ISA |
| Model | 648 Multiturn stainless steel |
| Shaft type | Ø11 mm with key nut |
| Flange type | Synchro flange |
| Power supply | 9-30 Vdc |
| Output interface | PROFIBUS DP |
| Absolute resolution | 31 bit (19 bit singleturn + 12 bit multiturn) |
| Connection type | 3 x M20 entries for Ex-certified cable glands |
| Connecting direction | Radial |

Electrical data

| | |
|-------------------------------|--|
| Polarity protected | Yes |
| Current consumption (No load) | 95 mA at 24 Vdc |
| Absolute accuracy | ± 100 arcsec |
| Supported profile | Encoder profile 3.062 (DPV0) and 3.162 v4.1 (DPV2) |
| Node adress | Settable via DIP switches, 0...99 |
| Baud rate | Max. 12 Mbit/s |

Dimensions



Supported functions

Preset, Scaling, Code sequence, Isosynchronous mode (only DPV2), Velocity (only DPV0 class 2)

Pin Configuration

| Function | Terminal |
|---------------|----------|
| +E Volt | + (1) |
| 0 Volt | - (2) |
| B** (Bus in) | B (3) |
| A* (Bus in) | A (4) |
| B** (Bus out) | B (5) |
| A* (Bus out) | A (6) |

*A terminals are connected

**B terminals are connected

Order information

| | |
|-------------|------------|
| Part number | 1086436-03 |
|-------------|------------|