

## 技術データシート

## エンコーダ シリーズ情報

製品番号: 90000110

EI30-M 058 CL

### 目次

- 仕様書
- 製品キー



写真と異なる場合があります

|                     |                                      |
|---------------------|--------------------------------------|
| エンコーダ_シリーズ          | EI 058 CL                            |
| エンコーダ_基本原理          | インクリメンタル                             |
| エンコーダ_動作原理          | 磁力の                                  |
| エンコーダ_フランジ直径        | Ø 58mm                               |
| エンコーダ_フランジタイプ       | 固定フランジ                               |
| エンコーダ_中実シャフト/中空シャフト | 中空シャフト                               |
| エンコーダ_シャフト直径        | Ø 10 mm                              |
|                     | Ø 6 mm                               |
|                     | Ø 8 mm                               |
| エンコーダ_供給電圧          | 4.75 ... 30 VDC                      |
| エンコーダ_出力スイッチ        | HTL (5 VDC の場合に TTL)                 |
|                     | HTL、inv. (5 VDC の場合に TTL/RS422 に互換性) |
| エンコーダ_インパルス数        | 1 ... 16384 I/U                      |

## 仕様書

### Encoder EI30 M 058 CL

#### Resolution

|                           |                       |
|---------------------------|-----------------------|
| Pulses per revolution PPR | 1 PPR up to 16384 PPR |
|---------------------------|-----------------------|

#### Mechanical Data

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| Flange           | clamping flange                                                              |
| Flange material  | aluminum                                                                     |
| Housing material | Stainless steel or die cast aluminum, powder coated (only M16 and M23 plugs) |
| Flange diameter  | Ø 58 mm [Ø 2.283"]                                                           |
| Cam mounting     | pitch 69 mm [2.717 inches]                                                   |

#### Shaft(s)

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Shaft material  | stainless steel                                     |
| Starting torque | approx. 1 Ncm [1.416 in-ozf] at ambient temperature |

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Shaft</b>                          | Ø 6 mm [Ø 0.236"]                           |
|                                       | Attention: No option IP = full IP67 version |
| Shaft length                          | L: 12 mm [0.472"]                           |
| Max. Permissible shaft loading radial | 125 N [12.746 kp]                           |
| Max. Permissible shaft loading axial  | 120 N [12.236 kp]                           |

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Shaft</b>                          | Ø 8 mm [Ø 0.315"]                           |
|                                       | Attention: No option IP = full IP67 version |
| Shaft length                          | L: 19 mm [0.748"]                           |
| Max. Permissible shaft loading radial | 125 N [12.746 kp]                           |
| Max. Permissible shaft loading axial  | 120 N [12.236 kp]                           |

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Shaft</b>                          | Ø 9.525 mm [Ø 3/8"] Order No: 4Z            |
|                                       | Attention: No option IP = full IP67 version |
| Shaft length                          | L: 20 mm [0.787"]                           |
| Max. Permissible shaft loading radial | 220 N [22.433 kp]                           |
| Max. Permissible shaft loading axial  | 120 N [12.236 kp]                           |

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Shaft</b>                          | Ø 10 mm [Ø 0.394"] |
| Shaft length                          | L: 20 mm [0.787"]  |
| Max. Permissible shaft loading radial | 220 N [22.433 kp]  |
| Max. Permissible shaft loading axial  | 120 N [12.236 kp]  |

#### Bearings

|                       |                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bearings type         | 2 precision ball bearings                                                                                                                                         |
| Nominale service life | 1 x 10 <sup>9</sup> revs. at 100 % rated shaft load<br>1 x 10 <sup>10</sup> revs. at 40 % rated shaft load<br>1 x 10 <sup>11</sup> revs. at 20 % rated shaft load |
| Max. operating speed  | 8000 rpm                                                                                                                                                          |

#### Machinery Directive: basic data safety integrity level

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| MTTF <sub>d</sub>            | 2200 a                                                           |
| Mission time (TM)            | 25 a                                                             |
| Nominale service life (L10h) | 1 x 10 <sup>11</sup> revs. at 20 % rated shaft load and 8000 rpm |
| Diagnostic coverage (DC)     | 0 %                                                              |

#### Electrical Data

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Power supply/Current consumption | 4.75 VDC up to 30 VDC: typ. 40 mA                                    |
| Operating principle              | magnetic                                                             |
| Output circuit                   | HTL (TTL at 5 VDC)<br>HTL, inv. (TTL/RS422 comp. at 5 VDC)           |
| Pulse frequency                  | HTL up to 16384 ppr: max. 600 kHz<br>TTL up to 16384 ppr: max. 1 MHz |
| Channels                         | B<br>N<br>and inverted signals                                       |
| Load                             | max. 40 mA / channel                                                 |
| Circuit protection               | yes                                                                  |

#### Accuracy

|                    |                                         |
|--------------------|-----------------------------------------|
| Phase offset       | 90° ± max. 7.5 % of the period duration |
| pulse-/pause-ratio | 50 % ± max. 7 %                         |

#### Environmental data

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| ESD (DIN EN 61000-4-2):          | 8 kV                                      |
| Burst (DIN EN 61000-4-4):        | 2 kV                                      |
| includes EMC:                    | DIN EN 61000-6-2<br>DIN EN 61000-6-3      |
| Vibration:<br>(DIN EN 60068-2-6) | 50 m/s <sup>2</sup> (10 Hz up to 2000 Hz) |
| Shock:<br>(DIN EN 60068-2-27)    | 1000 m/s <sup>2</sup> (6 ms)              |
| Electrical Safety:               | according DIN VDE 0160                    |

#### Duty information

|                        |          |
|------------------------|----------|
| Customs tariff number: | 90318020 |
| Country of origin:     | Germany  |

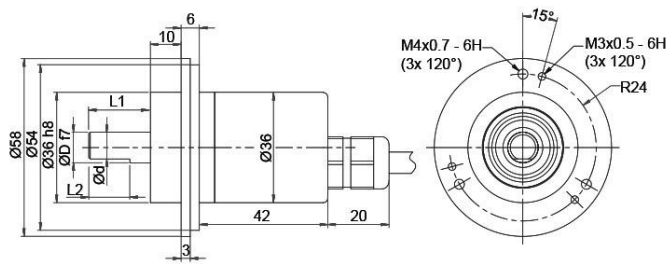
#### General Data

|                                 |                                                                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight                          | approx. 250 g [8.818 oz]                                                                                                                                                                                   |
| Connections                     | cable or connector outlet                                                                                                                                                                                  |
| Protection rating<br>(EN 60529) | Housing: IP65, IP67;<br>shaft sealed: IP65                                                                                                                                                                 |
| Operating temperature           | Connector: -40 °C up to +85 °C,<br>Cable: -20 °C up to +80 °C<br>(Option LT: -40 °C up to +85 °C).<br>Connector: -40 °F up to +185 °F,<br>Cable: -4 °F up to +176 °F,<br>Option LT: -40 °F up to +185 °F   |
| Storage temperature             | Connector: -40 °C up to +85 °C,<br>Cable: -30 °C up to +80 °C<br>(Option LT: -40 °C up to +85 °C)<br>Connector: -40 °F up to +185 °F,<br>cable: -22 °F up to +176 °F,<br>(Option LT: -40 °F up to +185 °F) |

仕様書

Encoder EI30 M 058 CL

Cable connection A-C axial with 2 m cable



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| D = 6            | L1 = 12 | d = 5.3            | L2 = 10 |
| D = 8            | L1 = 19 | d = 7.5            | L2 = 15 |
| D = 9.525 [3/8"] | L1 = 20 | d = 8.302 [0.327"] | L2 = 10 |
| D = 10           | L1 = 20 | d = 9              | L2 = 15 |

All dimensions in mm

Description

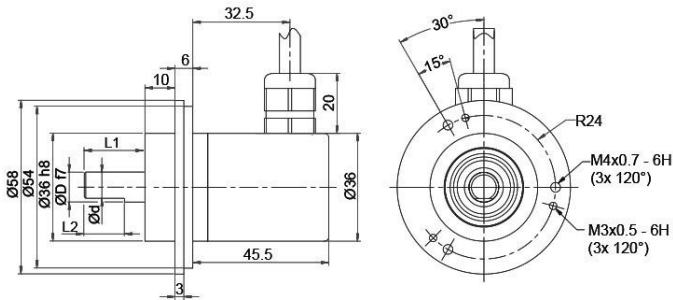
N inv. poss.

A-C axial, shield connected to encoder housing

Assignments

|         | A-C  | A-C               |
|---------|------|-------------------|
| Circuit | D2   | D1                |
| GND     | WH   | WH                |
| (+) Vcc | BN   | BN                |
| A       | GN   | GN                |
| B       | YE   | YE                |
| N       | GY   | GY                |
| —       | —    | —                 |
| A inv.  | —    | RD                |
| B inv.  | —    | BK,<br>(BU at LT) |
| N inv.  | —    | VT                |
| Shield  | flex | flex              |

Cable connection R-C radial with 2 m cable



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| D = 6            | L1 = 12 | d = 5.3            | L2 = 10 |
| D = 8            | L1 = 19 | d = 7.5            | L2 = 15 |
| D = 9.525 [3/8"] | L1 = 20 | d = 8.302 [0.327"] | L2 = 10 |
| D = 10           | L1 = 20 | d = 9              | L2 = 15 |

All dimensions in mm



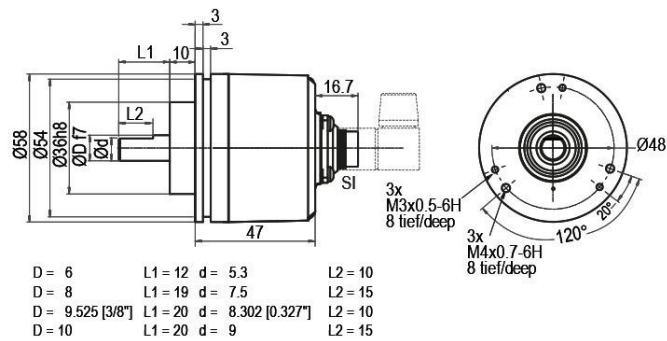
仕様書

Encoder EI30 M 058 CL

Assignments

|        |      |      |
|--------|------|------|
| N inv. | –    | VT   |
| Shield | flex | flex |

Connector (M16x0.75) A, axial, 5-, 6-, 8-, 12-pin



All dimensions in mm

Description

N inv. poss.

|     |                                                       |   |
|-----|-------------------------------------------------------|---|
| A5  | axial, 5-pin, Connector connected to encoder housing  | – |
| A6  | axial, 6-pin, Connector connected to encoder housing  | – |
| A8  | axial, 8-pin, Connector connected to encoder housing  | • |
| A12 | axial, 12-pin, Connector connected to encoder housing | • |

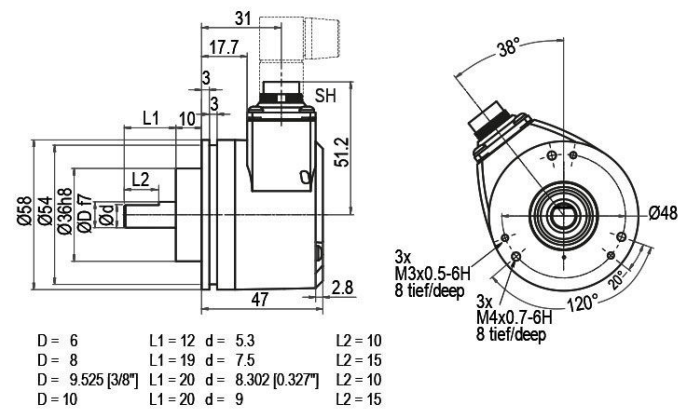
Assignments

|         | A5    | A6    | A8      | A8    | A12           | A12    |
|---------|-------|-------|---------|-------|---------------|--------|
|         | 5-pin | 6-pin | 8-pin   | 8-pin | 12-pin        | 12-pin |
|         |       |       |         |       |               |        |
| Circuit | D2    | D2    | D2      | D1    | D2            | D1     |
| GND     | 1     | 6     | 1       | 1     | K, L          | K, L   |
| (+) Vcc | 2     | 1     | 2       | 2     | M, B          | M, B   |
| A       | 3     | 2     | 3       | 3     | E             | E      |
| B       | 4     | 4     | 4       | 4     | H             | H      |
| N       | 5     | 3     | 5       | 5     | C             | C      |
| –       | –     | –     | –       | –     | –             | –      |
| A inv.  | –     | –     | –       | 6     | –             | F      |
| B inv.  | –     | –     | –       | 7     | –             | A      |
| N inv.  | –     | –     | –       | 8     | –             | D      |
| n. c.   | –     | 5     | 6, 7, 8 | –     | A, D, F, G, J | G, J   |
| Shield  | –     | –     | –       | –     | –             | –      |

仕様書

Encoder EI30 M 058 CL

Connector (M16x0.75) R, radial, 5-, 6-, 8-, 12-pin



All dimensions in mm

| Description |                                                        | N inv. poss. |
|-------------|--------------------------------------------------------|--------------|
| R5          | radial, 5-pin, Connector connected to encoder housing  | —            |
| R6          | radial, 6-pin, Connector connected to encoder housing  | —            |
| R8          | radial, 8-pin, Connector connected to encoder housing  | •            |
| R12         | radial, 12-pin, Connector connected to encoder housing | •            |

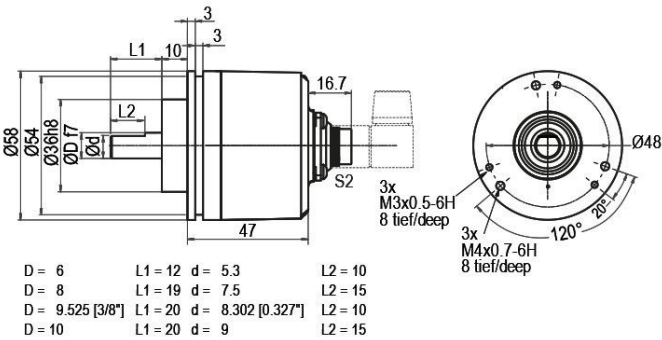
Assignments

|         | R5    | R6    | R8      | R8    | R12           | R12    |
|---------|-------|-------|---------|-------|---------------|--------|
|         | 5-pin | 6-pin | 8-pin   | 8-pin | 12-pin        | 12-pin |
|         |       |       |         |       |               |        |
| Circuit | D2    | D2    | D2      | D1    | D2            | D1     |
| GND     | 1     | 6     | 1       | 1     | K, L          | K, L   |
| (+) Vcc | 2     | 1     | 2       | 2     | M, B          | M, B   |
| A       | 3     | 2     | 3       | 3     | E             | E      |
| B       | 4     | 4     | 4       | 4     | H             | H      |
| N       | 5     | 3     | 5       | 5     | C             | C      |
| —       | —     | —     | —       | —     | —             | —      |
| A inv.  | —     | —     | —       | 6     | —             | F      |
| B inv.  | —     | —     | —       | 7     | —             | A      |
| N inv.  | —     | —     | —       | 8     | —             | D      |
| n. c.   | —     | 5     | 6, 7, 8 | —     | A, D, F, G, J | G, J   |
| Shield  | —     | —     | —       | —     | —             | —      |

仕様書

Encoder EI30 M 058 CL

Connector (M16x0.75) A7, axial, 7-pin



All dimensions in mm

Description

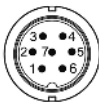
N inv. poss.

A7 axial, 7-pin, Connector connected to encoder housing

Assignments

A7

7-pin



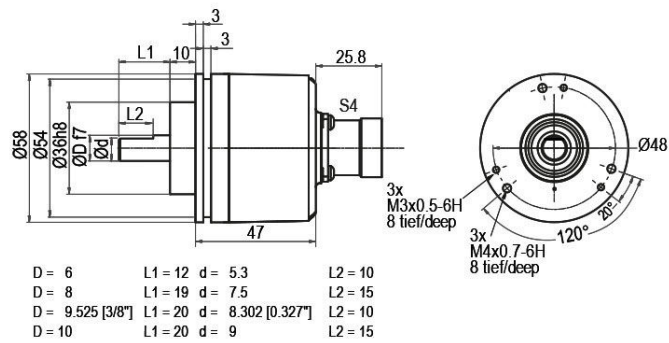
|         |      |
|---------|------|
| Circuit | D2   |
| GND     | 1    |
| (+) Vcc | 2    |
| A       | 3    |
| B       | 4    |
| N       | 5    |
| —       | —    |
| A inv.  | —    |
| B inv.  | —    |
| N inv.  | —    |
| n. c.   | 6, 7 |
| Shield  | —    |



仕様書

Encoder EI30 M 058 CL

Connector (M23) A12M, axial, 12-pin



All dimensions in mm

| Description                                                | N inv. poss. |
|------------------------------------------------------------|--------------|
| A12M axial, 12-pin, Connector connected to encoder housing | —            |

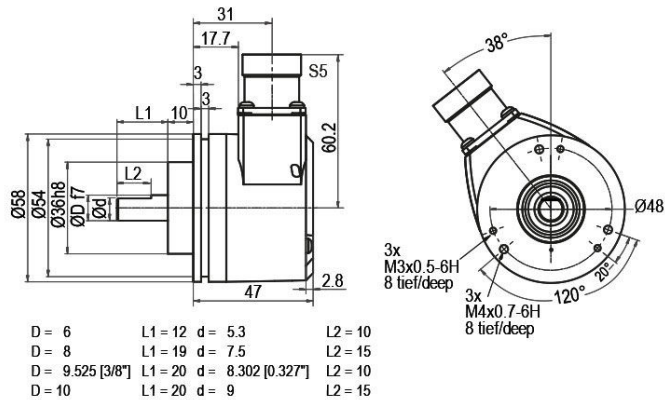
Assignments

|         | A12M<br>12-pin       | A12M<br>12-pin |
|---------|----------------------|----------------|
|         |                      |                |
| Circuit | D2                   | D1             |
| GND     | 10                   | 10             |
| (+) Vcc | 12                   | 12             |
| A       | 5                    | 5              |
| B       | 8                    | 8              |
| N       | 3                    | 3              |
| —       | —                    | —              |
| A inv.  | —                    | 6              |
| B inv.  | —                    | 1              |
| N inv.  | —                    | 4              |
| n. c.   | 1, 2, 4, 6, 7, 9, 11 | 2, 7, 9, 11    |
| Shield  | —                    | —              |

仕様書

Encoder EI30 M 058 CL

Connector (M23) R12M, radial, 12-pin



All dimensions in mm

Description

N inv. poss.

R12M radial, 12-pin, Connector connected to encoder housing

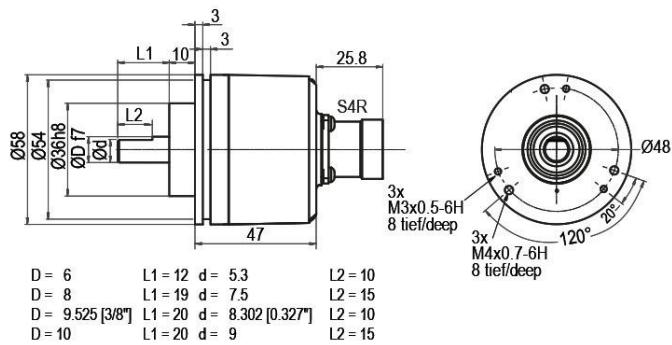
Assignments

|         | R12M                                                                                | R12M                                                                                |
|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|         | 12-pin                                                                              | 12-pin                                                                              |
|         |  |  |
| Circuit | D2                                                                                  | D1                                                                                  |
| GND     | 10                                                                                  | 10                                                                                  |
| (+) Vcc | 12                                                                                  | 12                                                                                  |
| A       | 5                                                                                   | 5                                                                                   |
| B       | 8                                                                                   | 8                                                                                   |
| N       | 3                                                                                   | 3                                                                                   |
| —       | —                                                                                   | —                                                                                   |
| A inv.  | —                                                                                   | 6                                                                                   |
| B inv.  | —                                                                                   | 1                                                                                   |
| N inv.  | —                                                                                   | 4                                                                                   |
| n. c.   | 1, 2, 4, 6, 7, 9, 11                                                                | 2, 7, 9, 11                                                                         |
| Shield  | —                                                                                   | —                                                                                   |

仕様書

Encoder EI30 M 058 CL

Connector (M23) AC12, axial, 12-pin (clockwise)



All dimensions in mm

Description N inv. poss.

AC12      axial, 12-pin, Connector connected to encoder housing

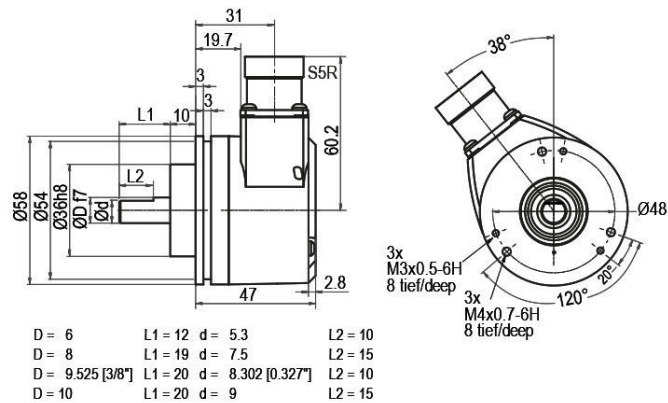
Assignments

|         | AC12                 | AC12        |
|---------|----------------------|-------------|
|         | 12-pin               | 12-pin      |
|         |                      |             |
| Circuit | D2                   | D1          |
| GND     | 10                   | 10          |
| (+) Vcc | 12                   | 12          |
| A       | 5                    | 5           |
| B       | 8                    | 8           |
| N       | 3                    | 3           |
| —       | —                    | —           |
| A inv.  | —                    | 6           |
| B inv.  | —                    | 1           |
| N inv.  | —                    | 4           |
| n. c.   | 1, 2, 4, 6, 7, 9, 11 | 2, 7, 9, 11 |
| Shield  | —                    | —           |

仕様書

Encoder EI30 M 058 CL

Connector (M23) RC12, radial, 12-pin (clockwise)



All dimensions in mm

Description N inv. poss.

RC12 radial, 12-pin, Connector connected to encoder housing

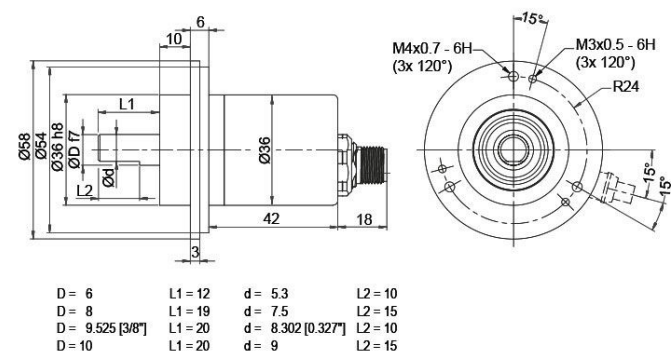
Assignments

|         | RC12                 | RC12        |
|---------|----------------------|-------------|
|         | 12-pin               | 12-pin      |
|         |                      |             |
| Circuit | D2                   | D1          |
| GND     | 10                   | 10          |
| (+) Vcc | 12                   | 12          |
| A       | 5                    | 5           |
| B       | 8                    | 8           |
| N       | 3                    | 3           |
| —       | —                    | —           |
| A inv.  | —                    | 6           |
| B inv.  | —                    | 1           |
| N inv.  | —                    | 4           |
| n. c.   | 1, 2, 4, 6, 7, 9, 11 | 2, 7, 9, 11 |
| Shield  | —                    | —           |

仕様書

Encoder EI30 M 058 CL

Sensor-connector (M12x1) AS axial, 5-, 8-pin



All dimensions in mm

| Description |                                                      | N inv. poss. |
|-------------|------------------------------------------------------|--------------|
| AS5         | axial, 5-pin, Connector connected to encoder housing | —            |
| AS8         | axial, 8-pin, Connector connected to encoder housing | •            |

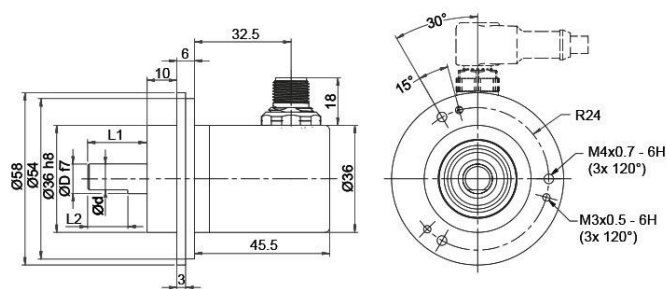
Assignments

|         | RS5<br>5-pin | RS8<br>8-pin |
|---------|--------------|--------------|
|         |              |              |
| Circuit | D2           | D1           |
| GND     | 3            | 1            |
| (+) Vcc | 1            | 2            |
| A       | 4            | 3            |
| B       | 2            | 4            |
| N       | 5            | 5            |
| —       | —            | —            |
| A inv.  | —            | 6            |
| B inv.  | —            | 7            |
| N inv.  | —            | 8            |
| n. c.   | —            | —            |
| Shield  | —            | —            |

仕様書

Encoder EI30 M 058 CL

Sensor-connector (M12x1) RS radial, 5-, 8-pin



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| D = 6            | L1 = 12 | d = 5.3            | L2 = 10 |
| D = 8            | L1 = 19 | d = 7.5            | L2 = 15 |
| D = 9.525 [3/8"] | L1 = 20 | d = 8.302 [0.327"] | L2 = 10 |
| D = 10           | L1 = 20 | d = 9              | L2 = 15 |

All dimensions in mm

Description

N inv. poss.

|     |                                                       |   |
|-----|-------------------------------------------------------|---|
| RS5 | radial, 5-pin, Connector connected to encoder housing | — |
| RS8 | radial, 8-pin, Connector connected to encoder housing | • |

Assignments

|         | RS5<br>5-pin | RS8<br>8-pin |
|---------|--------------|--------------|
|         |              |              |
| Circuit | D2           | D1           |
| GND     | 3            | 1            |
| (+) Vcc | 1            | 2            |
| A       | 4            | 3            |
| B       | 2            | 4            |
| N       | 5            | 5            |
| —       | —            | —            |
| A inv.  | —            | 6            |
| B inv.  | —            | 7            |
| N inv.  | —            | 8            |
| n. c.   | —            | —            |
| Shield  | —            | —            |

## 仕様書

### Encoder EI30 M 058 CL

#### Options

##### Low-friction bearings

##### Order key

The encoder EI30 M 058 CL is also available as a particularly smooth- running low-friction encoder. The starting torque is thereby changed to  $\leq 0.5 \text{ Ncm}$  [0.708 in-ozf] and the protection class at the shaft input to IP50.

LB

##### Shafts sealed to IP67, only with 10 mm [0.394"] shaft

##### Order key

The encoder EI30 M 058 CL can be supplied in a IP67 version. (full IP67 only connection AS, RS, A-C or R-C version; not cable connection R-IP = IP40).

IP

Max. RPM: 3500 min<sup>-1</sup>  
 Permitted Shaft-Loading: axial 100 N [10.197 kp]; radial 110 N [11.216 kp]  
 Starting-torque: approx. 4 Ncm [5.664 in-ozf] at ambient temperature

##### Low temperature

##### Order key

The encoder EI30 M 058 CL with the output circuit types D2, D1 is also available with the extended temperature range -40 °C up to +85 °C [-40 °F up to +185 °F] (measured at the flange).

LT

##### Pressure equalising membrane

##### Order key

The EI30 M 058 CL shaft encoder is also optionally available with a pressure equalising membrane. This prevents water from penetrating into the encoder housing in the case of high air humidity.

PE

The IP67 protection level, temperature range and salt spray resistance are maintained.  
 Resistant to chemicals and solvents in accordance with DIN EN ISO 2812-1.

##### Cable length

##### Order key

The encoder EI30 M 058 CL can be supplied with more than 2 m cable.  
 The maximum cable length depends on the supply voltage and the frequency.

XXX = Decimeter

Please extend the standard order code with a three figure number, specifying the cable length in decimetres.  
 Example: 5 m cable = 050

仕様書

Encoder EI30 M 058 CL

| Example Order No.          | Type                             |                  |                                      |   |           |
|----------------------------|----------------------------------|------------------|--------------------------------------|---|-----------|
| EI30 M 058 CL              | EI30 M 058 CL                    | EI30 M 058 CL    |                                      |   |           |
| Shaft                      |                                  |                  |                                      |   |           |
| 10                         | 06; 08; 4Z; 10                   |                  |                                      |   |           |
| Pulses per revolution PPR: |                                  |                  |                                      |   |           |
| 16384                      | 1-16384<br>Other PPRs on request |                  |                                      |   |           |
| Channels:                  |                                  |                  |                                      |   |           |
| N                          | B, N                             |                  |                                      |   |           |
| Output circuit             |                                  |                  |                                      |   |           |
| D1                         | Resolution PPR                   | Power supply VDC | Output circuit                       | — | Order key |
|                            | 1-16384                          | 4.75 - 30        | HTL (TTL at 5 VDC)                   | — | D2        |
|                            |                                  | 4.75 - 30        | HTL, inv. (TTL/RS422 comp. at 5 VDC) | — | D1        |

仕様書

Encoder EI30 M 058 CL

Electrical connections

| Description                  |                                                     | N inv. poss. | Order key |
|------------------------------|-----------------------------------------------------|--------------|-----------|
| Cable: length (2 m standard) |                                                     |              |           |
| A-C                          | radial, shield not connected (IP40)                 | •            | R-IP      |
|                              | axial, shield connected to encoder housing          | •            | A-C       |
|                              | radial, shield connected to encoder housing         | •            | R-C       |
|                              | Connector: (shield connected to encoder housing)    |              |           |
|                              | connector, M16x0.75, 5-pin, axial                   | –            | A5        |
|                              | connector, M16x0.75, 5-pin, radial                  | –            | R5        |
|                              | connector, M16x0.75, 6-pin, axial                   | –            | A6        |
|                              | connector, M16x0.75, 6-pin, radial                  | –            | R6        |
|                              | connector, M16x0.75, 8-pin, axial                   | •            | A8        |
|                              | connector, M16x0.75, 8-pin, radial                  | •            | R8        |
|                              | connector, M16x0.75, 12-pin, axial                  | •            | A12       |
|                              | connector, M16x0.75, 12-pin, radial                 | •            | R12       |
|                              | connector, M16x0.75, 7-pin, axial                   | –            | A7        |
|                              | connector, M16x0.75, 7-pin, radial                  | –            | R7        |
|                              | connector, M23, 12-pin, axial                       | •            | A12M      |
|                              | connector, M23, 12-pin, radial                      | •            | R12M      |
|                              | connector, clockwise pin count, M23, 12-pin, axial  | •            | AC12      |
|                              | connector, clockwise pin count, M23, 12-pin, radial | •            | RC12      |
|                              | sensor-connector, M12x1, 5-pin, axial               | –            | AS5       |
|                              | sensor-connector, M12x1, 5-pin, radial              | –            | RS5       |
|                              | sensor-connector, M12x1, 8-pin, axial               | •            | AS8       |
|                              | sensor-connector, M12x1, 8-pin, radial              | •            | RS8       |

Options

| Description                                           |  | Order key       |
|-------------------------------------------------------|--|-----------------|
| Low-friction bearings                                 |  | LB              |
| Shafts sealed to IP67, only with 10 mm [0.394"] shaft |  | IP              |
| Low temperature                                       |  | LT              |
| Pressure equalising membrane                          |  | PE              |
| Without option                                        |  | Empty           |
| Cable length                                          |  | XXX = Decimeter |

|                    |               |    |       |   |    |     |               |              |
|--------------------|---------------|----|-------|---|----|-----|---------------|--------------|
| Example Order No.: | EI30 M 058 CL | 10 | 16384 | N | D1 | A-C | EI30 M 058 CL | Your encoder |
|--------------------|---------------|----|-------|---|----|-----|---------------|--------------|

製品キー

製品名：EABB CCCDDEE FFFFFFF GHJJKK LLMNNOPPP RR

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A      | 回転エンコーダのタイプ<br>I：インクリメンタル<br>S：絶対的、シングルターン<br>M：絶対、マルチターン                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BB     | シリーズ<br>10：入力<br>30：ベーシック<br>50：拡張済み<br>70：先進的                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CCC    | フランジ直径<br>024：24 mm<br>036：36 mm<br>058：58 mm<br>063：63 mm<br>067：67 mm<br>070：70 mm<br>080：80 mm<br>100: 100 mm<br>115：115 mm                                                                                                                                                                                                                                                                                                                                                                              |
| DD     | フランジタイプ<br>BB：ブラインドホール付きの中空シャフト<br>CC：(コンパクトな形態)<br>CF：クランプフランジ (食品と飲料)<br>CH：クランプフランジ (重荷重仕様)<br>CL：クランプフランジ<br>HI：中空シャフト (絶縁された)<br>HO：中空シャフト<br>HT：中空シャフト (特別なトルク支持)<br>RC：丸形フランジ (36/40 クランプフランジ、58 6-mm-シャフト付き)<br>RE：丸形フランジ (拡張穴)<br>RN：丸形フランジ<br>SC：ステータカップリング<br>SF：ネジフランジ (53 クランプフランジ、58 食品と飲料水)<br>SI：サーボフランジ (拡張シャフト負荷とIP保護)<br>SQ：スクエアフランジ<br>SR：ネジフランジ (36/40 クランプフランジ、58 耐食性)<br>SY：シンクロ (インクリメンタル)、サーボ (36)、シンクロ (58) (絶対的)<br>TM：タコ (115 1-mm-シャフト付き、58 モーターフィードバック)<br>TS：タコ (10-mm-シャフト) |
| EE     | シャフト-/穴の直径<br>06：6 mm<br>07：7 mm<br>08：8 mm<br>08：8 mm<br>10：10 mm<br>11：11 mm<br>12：12 mm<br>14: 14 mm<br>15：15 mm<br>06-72：中空-/ブラインドホール (6 ... 72 mm)                                                                                                                                                                                                                                                                                                                                                     |
| FFFFFF | 信号/分解能<br>Axxxxx：A<br>Bxxxxx：AB<br>Nxxxxx：ABN<br>P16384：プログラム可能<br>xx：シングルターン、1 ... 16 Bit<br>xx：マルチターン、0 ... 43 Bit (00 シングルターンの場合)                                                                                                                                                                                                                                                                                                                                                                        |
| G      | 直流電流切断 (絶対のみ)<br>0：なし<br>1：と一緒に                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| HH     | 電力供給 (絶対のみ)<br>0：10 ... 32 V DC/ 直流電流分離付き<br>1：4.75 ... 5.5 V DC<br>2：18 ... 30 V DC                                                                                                                                                                                                                                                                                                                                                                                                                        |
| J      | 動作原理<br>M：磁力の<br>O：光学的<br>P：光学的に補間された                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

製品キー

|     |                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------|
| KK  | インターフェース<br>01 : RS485<br>07 : SSI バイナリ<br>08 : SSI Gray<br>35 : CANopen<br>38 : EtherCAT<br>48 : PROFINET<br>58 : EtherNet/IP |
| LL  | 電氣的接続<br>M08 : 丸形プラグ M8<br>M12 : 丸形プラグ M12<br>M16 : 丸形プラグ M16<br>M23 : 丸形プラグ M23<br>M12BC : バスキャッププラグ                          |
| M   | ケーブルアウトレット<br>A : 軸方向<br>R : 半径方向<br>T : 正接の                                                                                   |
| NN  | 極数<br>xx : 極数                                                                                                                  |
| O   | シールド接続 (2-m-ケーブル) (オプション)<br>C : 接続済み<br>N : 不接続                                                                               |
| PPP | ケーブル長さ<br>xxx : ケーブル長 (dm)                                                                                                     |

注意

|                                                                                   |                                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|  | ☞ 利用可能なすべてのデバイスタイプのリストは、Leuzeのウェブサイト <a href="http://www.leuze.com">www.leuze.com</a> にあります。 |
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