



# Online Data sheet

## Encoder WDGN 58B

[www.wachendorff-automation.com/wdgn58b](http://www.wachendorff-automation.com/wdgn58b)

### **Wachendorff Automation**

#### **... systems and encoders**

- Complete systems
- Industrial rugged encoders to suit your application
- Standard range and customer versions
- Maximum permissible loads
- 48-hour express production
- Made in Germany
- Worldwide distributor network

# Encoder WDG 58B configurable via Smartphone (NFC)



Wachendorff Apps WDG

- Due to high quality electronics any number of pulses up to 16384 configurable via NFC
- HTL/TTL configurable via NFC
- Protection class IP67, at shaft input IP65
- High output frequency up to 1 MHz
- Reverse polarity protection and short-circuit protection at 4.75 VDC to 32 VDC

[www.wachendorff-automation.com/wdgn58b](http://www.wachendorff-automation.com/wdgn58b)

## Configurable via NFC

| Resolution                            |                                                     |
|---------------------------------------|-----------------------------------------------------|
| Pulses per revolution PPR             | 1 PPR up to 16384 PPR                               |
| Mechanical Data                       |                                                     |
| Flange                                | clamping flange                                     |
| Flange material                       | aluminum                                            |
| Housing material                      | Stainless steel, NFC cover: Thermoplastic polyamide |
| Flange diameter                       | Ø 58 mm [Ø 2.283"]                                  |
| Shaft(s)                              |                                                     |
| Shaft material                        | stainless steel                                     |
| Starting torque                       | approx. 1 Ncm [1.416 in-ozf] at ambient temperature |
| Shaft                                 | Ø 6 mm [Ø 0.236"]                                   |
| Advice                                | Attention: No option AAO = 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]                                   |
| Shaft                                 | Ø 8 mm [Ø 0.315"]                                   |
| Advice                                | Attention: No option AAO = 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]                                   |
| Shaft                                 | Ø 9.525 mm [Ø 3/8"] Order No: 4Z                    |
| Advice                                | Attention: No option AAO = 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]                                   |
| Shaft                                 | 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>                                      | 1200 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 32 VDC: typ. 80 mA                                    |
| Operating principle              | magnetic                                                             |
| Output circuit                   | HTL<br>HTL, inv.<br>TTL<br>TTL, RS422 compatible, inv.               |
| Pulse frequency                  | HTL up to 16384 ppr: max. 600 kHz<br>TTL up to 16384 ppr: max. 1 MHz |
| Channels                         | ABN<br>CH4<br>and inverted signals                                   |
| Load                             | max. 40 mA / channel                                                 |
| Circuit protection               | inverse-polarity and short-circuit protection                        |

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| Nullimpuls setzen: | Setzen: SET = +UB für 2 s<br>Deaktiviert: SET = GND |
|--------------------|-----------------------------------------------------|

| Accuracy           |                                         |
|--------------------|-----------------------------------------|
| Phase offset       | 90° ± max. 8.5 % of the period duration |
| pulse-/pause-ratio | 50 % ± max. 7 %                         |

| Configurable via NFC: |                                         |
|-----------------------|-----------------------------------------|
| BASIC: (BAS)          |                                         |
| Channels:             | ABN and inverted                        |
| HTL / TTL             | freely selectable                       |
| Pulses / revolution:  | 1 ppr up to 16384 ppr freely selectable |
| Advanced (ADV):       |                                         |

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Channels:                          | 4 channels configurable + inv. signals (ABN possible) |
| HTL / TTL:                         | freely selectable                                     |
| Pulses / revolution:               | 1 ppr up to 16384 ppr freely selectable               |
| Number of pulses for each channel: | individually selectable                               |
| Set zero pulse:                    | yes                                                   |
| Pulse width and position:          | Width and position adjustable                         |

#### Environmental data

##### Noise immunity:

|                                              |                        |
|----------------------------------------------|------------------------|
| ESD (DIN EN 61000-4-2):                      | 8 kV                   |
| EMC:<br>(DIN EN 61000-4-3):                  | 10 V/m                 |
| Burst (DIN EN 61000-4-4):                    | 2 kV                   |
| High frequency fields<br>(DIN EN 61000-4-6): | 10 V                   |
| Surge (DIN EN 61000-4-5):                    | 2 kV                   |
| Radio interference:                          | According DIN EN 55011 |

##### NFC:

|      |                           |
|------|---------------------------|
| EMC: | According ETSI EN 301 489 |
| RED: | According ETSI EN 300 330 |

|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| <b>Electrical safety:</b> | DIN EN 61010-1 (VDE 0411-1) / IEC 61010-1 / UL 61010-1 / CSA C22.0 No 61010-1-12 |
|---------------------------|----------------------------------------------------------------------------------|

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Vibration:<br>(DIN EN 60068-2-6) | 300 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)               |

#### Duty information

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

#### General Data

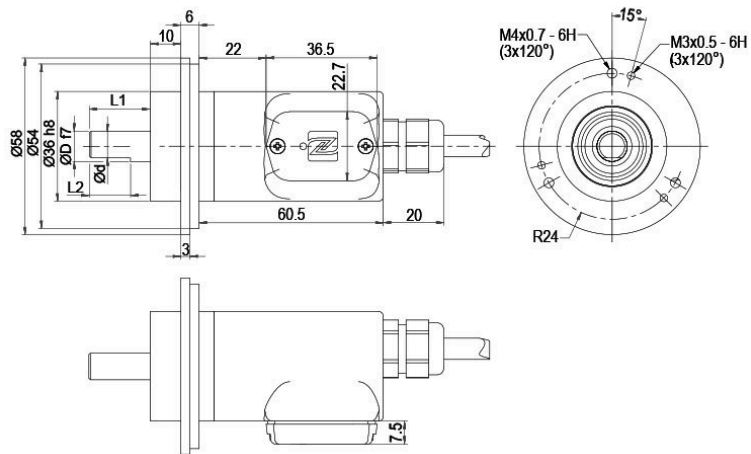
|                              |                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Weight                       | approx. 220 g [7.76 oz]                                                                                                           |
| Connections                  | cable or connector outlet                                                                                                         |
| Protection rating (EN 60529) | Housing: IP65, IP67;<br>shaft sealed: IP65;<br>cable outlet K1: IP40                                                              |
| Operating temperature        | Connector: -40 °C up to +85 °C,<br>Cable: -20 °C up to +80 °C.<br>Connector: -40 °F up to +185 °F,<br>Cable: -4 °F up to +176 °F. |
| Storage temperature          | Connector: -40 °C up to +100 °C,<br>Cable: -30 °C up to +80 °C<br>Connector: -40 °F up to +212 °F,<br>Cable: -22 °F up to +176 °F |

#### More Information

General technical data and safety instructions  
<http://www.wachendorff-automation.com/gtd>

Options  
<http://www.wachendorff-automation.com/acc>

**Cable connection L2 axial with 2 m cable (BAS)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

**Description**

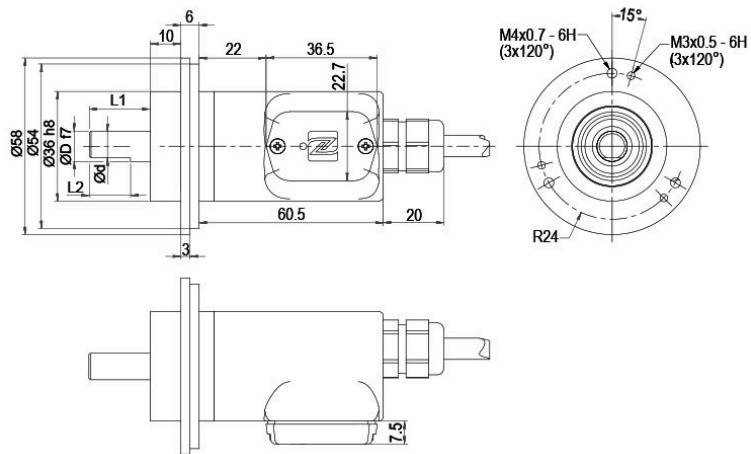
**ABN inv. poss.**

**L2** axial, shield connected to encoder housing

•

| Assignments    |           |
|----------------|-----------|
|                | <b>L2</b> |
| <b>Circuit</b> | BAS       |
| <b>GND</b>     | WH        |
| <b>(+) Vcc</b> | BN        |
| <b>A</b>       | GN        |
| <b>B</b>       | YE        |
| <b>N</b>       | GY        |
| <b>A inv.</b>  | RD        |
| <b>B inv.</b>  | BK        |
| <b>N inv.</b>  | VT        |
| <b>Shield</b>  | flex      |

**Cable connection L2 axial with 2 m cable (ADV)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

**Description**

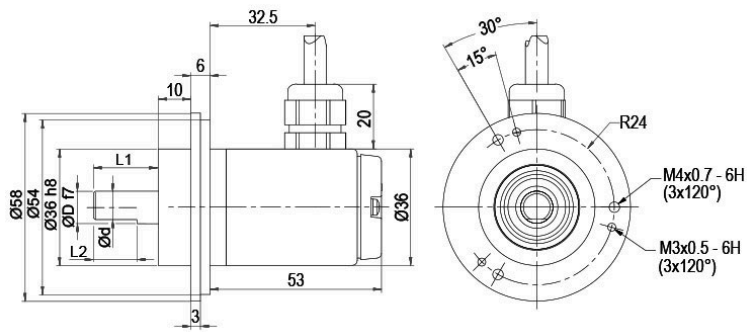
**ABN inv. poss.**

**L2** axial, shield connected to encoder housing

•

| Assignments     |           |
|-----------------|-----------|
|                 | <b>L2</b> |
| <b>Circuit</b>  | ADV       |
| <b>GND</b>      | WH        |
| <b>(+) Vcc</b>  | BN        |
| <b>CH1</b>      | GN        |
| <b>CH2</b>      | YE        |
| <b>CH3</b>      | GY        |
| <b>CH4</b>      | GYPK      |
| <b>SET</b>      | PK        |
| <b>CH1 inv.</b> | RD        |
| <b>CH2 inv.</b> | BK        |
| <b>CH3 inv.</b> | VT        |
| <b>CH4 inv.</b> | RDBU      |
| <b>Shield</b>   | flex      |

**Cable connection L3 radial with 2 m cabel (BAS)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

**Description**

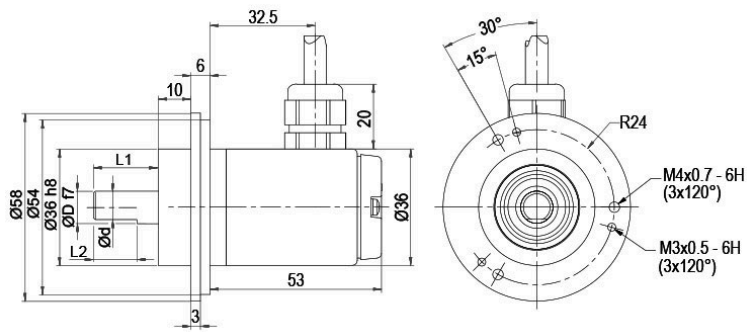
ABN inv. poss.

**L3** radial, shield connected to encoder housing

•

| Assignments    |           |
|----------------|-----------|
|                | <b>L3</b> |
| <b>Circuit</b> | BAS       |
| <b>GND</b>     | WH        |
| <b>(+) Vcc</b> | BN        |
| <b>A</b>       | GN        |
| <b>B</b>       | YE        |
| <b>N</b>       | GY        |
| <b>A inv.</b>  | RD        |
| <b>B inv.</b>  | BK        |
| <b>N inv.</b>  | VT        |
| <b>Shield</b>  | flex      |

Cable connection L3 radial with 2 m cabel (ADV)



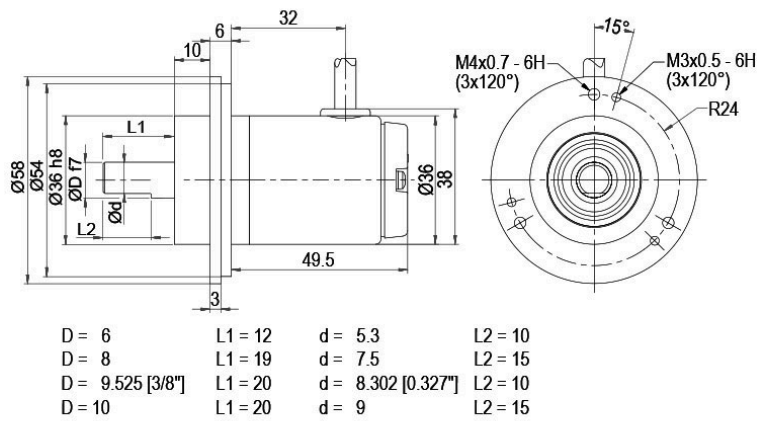
|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| D = 6            | L1 = 12 | d = 5.3            | L2 = 10 |
| D = 8            | L1 = 19 | d = 7.5            | L2 = 15 |
| D = 9.525 [3/8"] | L1 = 20 | d = 8.302 [0.327"] | L2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

Alle Abmessungen in mm / All dimensions in mm

| Description                                    | ABN inv. poss. |
|------------------------------------------------|----------------|
| L3 radial, shield connected to encoder housing | •              |

| Assignments     |           |
|-----------------|-----------|
|                 | <b>L3</b> |
| <b>Circuit</b>  | ADV       |
| <b>GND</b>      | WH        |
| <b>(+) Vcc</b>  | BN        |
| <b>CH1</b>      | GN        |
| <b>CH2</b>      | YE        |
| <b>CH3</b>      | GY        |
| <b>CH4</b>      | GYPK      |
| <b>SET</b>      | PK        |
| <b>CH1 inv.</b> | RD        |
| <b>CH2 inv.</b> | BK        |
| <b>CH3 inv.</b> | VT        |
| <b>CH4 inv.</b> | RDBU      |
| <b>Shield</b>   | flex      |

**Cable K1 (IP40) radial with 2 m cable (BAS)**



Alle Abmessungen in mm / All dimensions in mm

**Description**

ABN inv. poss.

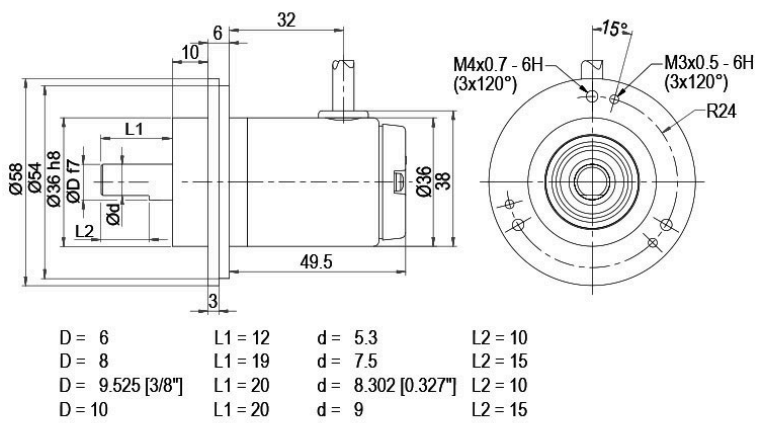
**K1** radial, shield not connected (IP40)

•

| Assignments    |           |
|----------------|-----------|
|                | <b>K1</b> |
| <b>Circuit</b> | BAS       |
| <b>GND</b>     | WH        |
| <b>(+) Vcc</b> | BN        |
| <b>A</b>       | GN        |
| <b>B</b>       | YE        |
| <b>N</b>       | GY        |
| <b>A inv.</b>  | RD        |
| <b>B inv.</b>  | BK        |
| <b>N inv.</b>  | VT        |
| <b>Shield</b>  | flex      |



**Cable K1 (IP40) radial with 2 m cable (ADV)**



Alle Abmessungen in mm / All dimensions in mm

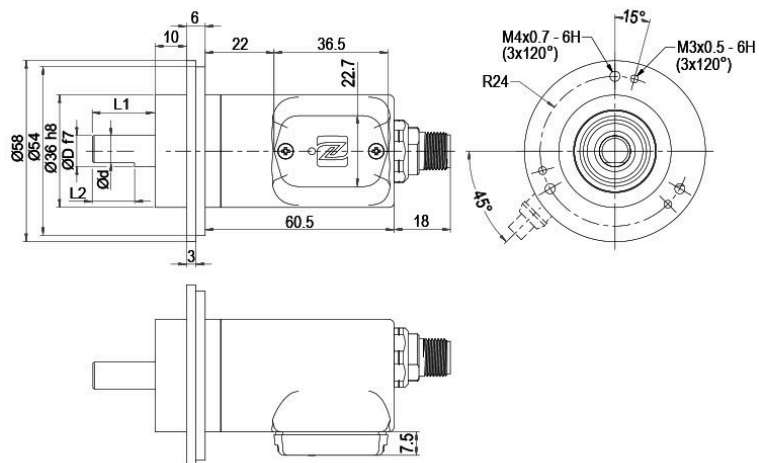
### Description

**ABN inv. poss.**

**K1** radial, shield not connected (IP40)

| Assignments     |           |
|-----------------|-----------|
|                 | <b>K1</b> |
| <b>Circuit</b>  | ADV       |
| <b>GND</b>      | WH        |
| <b>(+) Vcc</b>  | BN        |
| <b>CH1</b>      | GN        |
| <b>CH2</b>      | YE        |
| <b>CH3</b>      | GY        |
| <b>CH4</b>      | GYPK      |
| <b>SET</b>      | PK        |
| <b>CH1 inv.</b> | RD        |
| <b>CH2 inv.</b> | BK        |
| <b>CH3 inv.</b> | VT        |
| <b>CH4 inv.</b> | RDBU      |
| <b>Shield</b>   | flex      |

**Sensor connector (M12x1) SB axial, 8-pin (BAS)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

**Description**

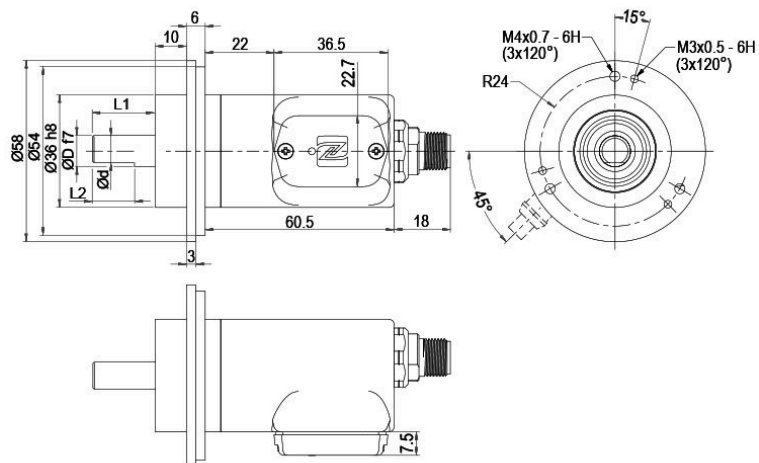
ABN inv. poss.

**SB8** axial, 8-pin, Connector connected to encoder housing

•

| Assignments    |              |
|----------------|--------------|
|                | <b>SB8</b>   |
|                | <b>8-pin</b> |
|                |              |
| <b>Circuit</b> | <b>BAS</b>   |
| <b>GND</b>     | 1            |
| <b>(+) Vcc</b> | 2            |
| <b>A</b>       | 3            |
| <b>B</b>       | 4            |
| <b>N</b>       | 5            |
| <b>A inv.</b>  | 6            |
| <b>B inv.</b>  | 7            |
| <b>N inv.</b>  | 8            |

**Sensor connector (M12x1) SB axial, 12-pin (ADV)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

**Description**

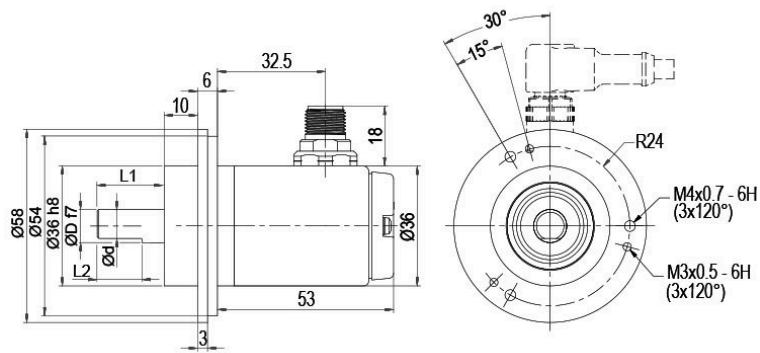
ABN inv. poss.

**SB12** axial, 12-pin, Connector connected to encoder housing

•

| Assignments     |               |
|-----------------|---------------|
|                 | <b>SB12</b>   |
|                 | <b>12-pin</b> |
|                 |               |
| <b>Circuit</b>  | <b>ADV</b>    |
| <b>GND</b>      | 3             |
| <b>(+) Vcc</b>  | 1             |
| <b>CH1</b>      | 4             |
| <b>CH2</b>      | 6             |
| <b>CH3</b>      | 8             |
| <b>CH4</b>      | 11            |
| <b>SET</b>      | 5             |
| <b>CH1 inv.</b> | 9             |
| <b>CH2 inv.</b> | 7             |
| <b>CH3 inv.</b> | 10            |
| <b>CH4 inv.</b> | 12            |
| <b>n. c.</b>    | 2             |

**Sensor-connector (M12x1) SC radial, 8-pin (BAS)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

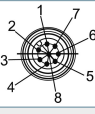
Alle Abmessungen in mm / All dimensions in mm

**Description**

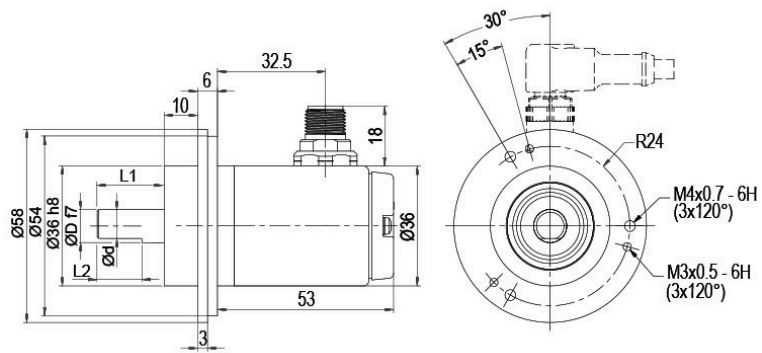
**ABN inv. poss.**

**SC8** radial, 8-pin, Connector connected to encoder housing

•

| Assignments    |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|
|                | <b>SC8</b>                                                                          |
|                | <b>8-pin</b>                                                                        |
|                |  |
| <b>Circuit</b> | <b>BAS</b>                                                                          |
| <b>GND</b>     | 1                                                                                   |
| <b>(+) Vcc</b> | 2                                                                                   |
| <b>A</b>       | 3                                                                                   |
| <b>B</b>       | 4                                                                                   |
| <b>N</b>       | 5                                                                                   |
| <b>A inv.</b>  | 6                                                                                   |
| <b>B inv.</b>  | 7                                                                                   |
| <b>N inv.</b>  | 8                                                                                   |

**Sensor-connector (M12x1) SC radial, 12-pin (ADV)**



|                  |         |                    |         |
|------------------|---------|--------------------|---------|
| 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 |

Alle Abmessungen in mm / All dimensions in mm

| Description | ABN inv. poss. |
|-------------|----------------|
|-------------|----------------|

**ABN inv. poss.**

**SC12** radial, 12-pin, Connector connected to encoder housing

| Assignments     |               |
|-----------------|---------------|
|                 | <b>SC12</b>   |
|                 | <b>12-pin</b> |
|                 |               |
| <b>Circuit</b>  | <b>ADV</b>    |
| <b>GND</b>      | <b>3</b>      |
| <b>(+) Vcc</b>  | <b>1</b>      |
| <b>CH1</b>      | <b>4</b>      |
| <b>CH2</b>      | <b>6</b>      |
| <b>CH3</b>      | <b>8</b>      |
| <b>CH4</b>      | <b>11</b>     |
| <b>SET</b>      | <b>5</b>      |
| <b>CH1 inv.</b> | <b>9</b>      |
| <b>CH2 inv.</b> | <b>7</b>      |
| <b>CH3 inv.</b> | <b>10</b>     |
| <b>CH4 inv.</b> | <b>12</b>     |
| <b>n. c.</b>    | <b>2</b>      |

## Options

### Low-friction bearings

The encoder WDG N 58B 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.

### Order key

**AAC**

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

The encoder WDG N 58B can be supplied in a IP67 version.  
(full IP67 only connection SB, SC, L2 or L3 version; not cable connection K1 = IP40).  
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

### Order key

**AAO**

### Cable length

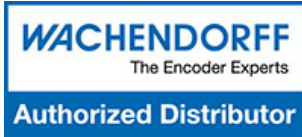
The encoder WDG N 58B can be supplied with more than 2 m cable. The maximum cable length depends on the supply voltage and the frequency; see <https://www.wachendorff-automation.com/download-gtd-incremental-encoders/>  
Please extend the standard order code with a three figure number, specifying the cable length in decimetres.  
Example: 5 m cable = 050

### Order key

**XXX = Decimeter**

| Example Order No. | Type                                                    |                         |                                        |                       |                  | Your encoder |
|-------------------|---------------------------------------------------------|-------------------------|----------------------------------------|-----------------------|------------------|--------------|
| WDGN 58B          | WDGN 58B                                                |                         |                                        |                       |                  | WDGN 58B     |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Shaft</b>                                            |                         |                                        |                       |                  |              |
| 10                | 06; 08; 4Z; 10                                          |                         |                                        |                       |                  |              |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Pulses per revolution PPR:</b>                       |                         |                                        |                       |                  |              |
| X                 | 1-16384 configurable<br>Other PPRs on request           |                         |                                        |                       |                  |              |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Channels:</b>                                        |                         |                                        |                       |                  |              |
| X                 | X (BAS=ABN, ADV= CH1,CH2,CH3,CH4)                       |                         |                                        |                       |                  |              |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Output circuit</b>                                   |                         |                                        |                       |                  |              |
| BAS               | <b>Resolution PPR</b>                                   | <b>Power supply VDC</b> | <b>Output circuit</b>                  | -                     | <b>Order key</b> |              |
|                   | configurable                                            | 4.75 - 32               | configurable HTL, TTL (A,B,N + inv.)   | -                     | BAS              |              |
|                   | 1-16384                                                 | 4.75 - 32               | configurable HTL, TTL; 4 channels+inv. | -                     | ADV              |              |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Electrical connections</b>                           |                         |                                        |                       |                  |              |
| L2                | <b>Description</b>                                      |                         |                                        | <b>ABN inv. poss.</b> | <b>Order key</b> |              |
|                   | <b>Cable: length (2 m standard, WDG 58T: 1 m)</b>       |                         |                                        |                       |                  |              |
|                   | radial, shield not connected (IP40)                     |                         |                                        | •                     | K1               |              |
|                   | axial, shield connected to encoder housing              |                         |                                        | •                     | L2               |              |
|                   | radial, shield connected to encoder housing             |                         |                                        | •                     | L3               |              |
|                   | <b>Connector: (shield connected to encoder housing)</b> |                         |                                        |                       |                  |              |
|                   | sensor-connector, M12x1, 8-pin, axial                   |                         |                                        | •                     | SB8              |              |
|                   | sensor-connector, M12x1, 8-pin, radial                  |                         |                                        | •                     | SC8              |              |
|                   | sensor-connector, M12x1, 12-pin, axial                  |                         |                                        | •                     | SB12             |              |
|                   | sensor-connector, M12x1, 12-pin, radial                 |                         |                                        | •                     | SC12             |              |
|                   |                                                         |                         |                                        |                       |                  |              |
|                   | <b>Options</b>                                          |                         |                                        |                       |                  |              |
|                   | <b>Description</b>                                      |                         |                                        | <b>Order key</b>      |                  |              |
|                   | Low-friction bearings                                   |                         |                                        | AAC                   |                  |              |
|                   | Shafts sealed to IP67, only with 10 mm [0.394"] shaft   |                         |                                        | AAO                   |                  |              |
|                   | Without option                                          |                         |                                        | Empty                 |                  |              |
|                   | Cable length                                            |                         |                                        | XXX = Decimeter       |                  |              |

|                           |          |    |   |   |     |    |  |          |  |  |  |  |  |  |                     |
|---------------------------|----------|----|---|---|-----|----|--|----------|--|--|--|--|--|--|---------------------|
| <b>Example Order No.=</b> | WDGN 58B | 10 | X | X | BAS | L2 |  | WDGN 58B |  |  |  |  |  |  | <b>Your encoder</b> |
|---------------------------|----------|----|---|---|-----|----|--|----------|--|--|--|--|--|--|---------------------|



For further information please contact our local distributor.  
Here you find a list of our distributors worldwide.  
<https://www.wachendorff-automation.com/>

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