

# Online Data Sheet

## Encoder WDG 58H

[www.wachendorff-automation.com/wdg58h](http://www.wachendorff-automation.com/wdg58h)

### 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

**IndustrieROBUST**

# Encoder WDG 58H



- Rugged industrial standard encoder
- Up to 25000 PPR by use of high grad electronics
- Thru-Bore
- High protection class IP65, with oil seal
- Maximum mechanical and electrical safety
- High noise immunity
- Full connection protection with 10 VDC up to 30 VDC
- With light reserve warning
- Optional: -40 °C up to +80 °C

[www.wachendorff-automation.com/wdg58h](http://www.wachendorff-automation.com/wdg58h)

| Resolution                            |                                                                 |
|---------------------------------------|-----------------------------------------------------------------|
| Max. pulses per revolution PPR        | up to 25000 PPR                                                 |
| Mechanical Data                       |                                                                 |
| Housing                               |                                                                 |
| Flange                                | hollow shaft (through-bored)                                    |
| Flange material                       | aluminium                                                       |
| Housing cap                           | aluminium, powder coated                                        |
| Torque supports                       | incl. 1 torque support WDGDS10001                               |
| - 1. Spring plate compensation        | axial: ±0.8 mm, radial: ±0.2 mm                                 |
| - Max. operating speed                | 6000 rpm up to max. protection rating +60 °C                    |
| - 2. Cylinder pin 4 mm                | needs accessories WDGDS10005                                    |
| - Compensation                        | axial: ±0.5 mm, radial: ±1.5 mm, Max. operating speed: 3000 rpm |
| Housing                               | Ø 58 mm                                                         |
| Shaft(s)                              |                                                                 |
| Shaft material                        | stainless steel                                                 |
| Starting torque                       | approx. 2.2 Ncm at ambient temperature                          |
| Fixing                                | permanently attached clamping ring                              |
| Shaft                                 | Ø 8 mm                                                          |
| Shaft length                          | L: 44.5 mm                                                      |
| Max. Permissible shaft loading radial | 80 N                                                            |
| Max. Permissible shaft loading axial  | 60 N                                                            |
| Shaft                                 | Ø 10 mm                                                         |
| Shaft length                          | L: 44.5 mm                                                      |
| Max. Permissible shaft loading radial | 80 N                                                            |
| Max. Permissible shaft loading axial  | 60 N                                                            |
| Shaft                                 | Ø 12 mm                                                         |
| Shaft length                          | L: 44.5 mm                                                      |
| Max. Permissible shaft loading radial | 80 N                                                            |
| Max. Permissible shaft loading axial  | 60 N                                                            |
| Shaft                                 | Ø 12.7 mm, Ø 1/2"                                               |

| Shaft length                                           | L: 44.5 mm, L: 1.75"                                                                                                                                                      |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Permissible shaft loading radial                  | 80 N, 8.15 kp                                                                                                                                                             |
| Max. Permissible shaft loading axial                   | 60 N, 6.12 kp                                                                                                                                                             |
| Shaft                                                  | Ø 14 mm                                                                                                                                                                   |
| Shaft length                                           | L: 44.5 mm                                                                                                                                                                |
| Max. Permissible shaft loading radial                  | 80 N                                                                                                                                                                      |
| Max. Permissible shaft loading axial                   | 60 N                                                                                                                                                                      |
| Bearings                                               |                                                                                                                                                                           |
| Bearings type                                          | 2 precision ball bearings                                                                                                                                                 |
| Nominal 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                                   | 6000 rpm                                                                                                                                                                  |
| Machinery Directive: basic data safety integrity level |                                                                                                                                                                           |
| MTTF <sub>d</sub>                                      | 200 a                                                                                                                                                                     |
| Mission time (TM)                                      | 25 a                                                                                                                                                                      |
| Nominal service life (L10h)                            | 1 x 10 <sup>11</sup> revs. at 20 % rated shaft load and 6000 rpm                                                                                                          |
| Diagnostic coverage (DC)                               | 0 %                                                                                                                                                                       |
| Electrical Data                                        |                                                                                                                                                                           |
| Power supply/Current consumption                       | 4,75 VDC up to 5,5 VDC: max. 100 mA<br>5 VDC up to 30 VDC: max. 70 mA<br>10 VDC up to 30 VDC: max. 100 mA                                                                 |
| Output circuit                                         | TTL<br>TTL, RS422 compatible, inv.<br>HTL<br>HTL, inv.<br>1 Vpp sin/cos                                                                                                   |
| Pulse frequency                                        | TTL ≤ 5000 ppr: max. 200 kHz<br>HTL ≤ 5000 ppr: max. 200 kHz<br>TTL more than 5000 ppr: max. 2 MHz<br>HTL more than 5000 ppr: max. 600 kHz<br>1 Vpp sin/cos: max. 100 kHz |
| Channels                                               | AB<br>ABN<br>and inverted signals                                                                                                                                         |
| Load                                                   | max. 40 mA / channel<br>@ 1 Vpp sin/cos: min. 120 Ohm                                                                                                                     |

|                    |                                                |
|--------------------|------------------------------------------------|
| Circuit protection | circuit type F24, G24, H24, I24, P24, R24 only |
|--------------------|------------------------------------------------|

#### Accuracy

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

#### General Data

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Weight                       | approx. 220 g                                     |
| Connections                  | cable or connector, radial                        |
| Protection rating (EN 60529) | IP65 all around                                   |
| Operating temperature        | -20 °C up to +80 °C<br>1 Vpp: -10 °C up to +70 °C |
| Storage temperature          | -30 °C up to +80 °C                               |

#### More Information

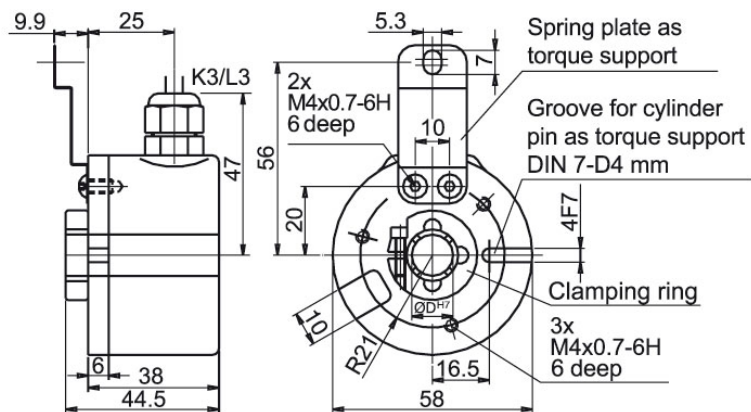
General technical data

<http://www.wachendorff-automation.com/gtd>

Options

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

**Cable connection K3, L3 with 2 m cable**



**Description**

**ABN inv. poss.**

**K3** radial, shield not connected

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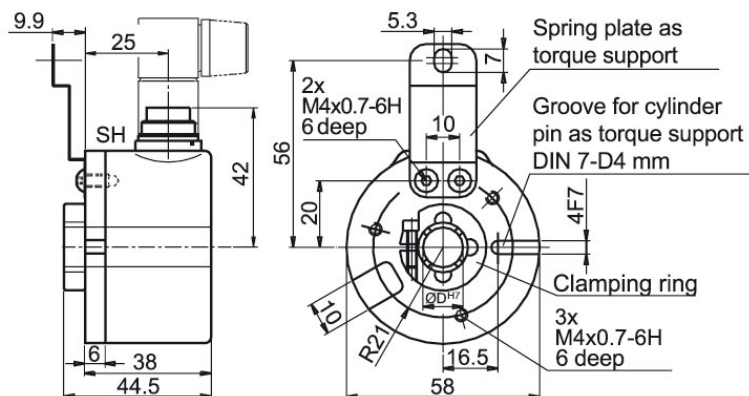
**L3** radial, shield connected to encoder housing

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**Assignments**

|                              | K3, L3   | K3, L3                  | K3, L3        | K3, L3                            | K3, L3 |
|------------------------------|----------|-------------------------|---------------|-----------------------------------|--------|
| <b>Circuit</b>               | G05, G24 | F05, H05, F24, H24, H30 | I05, I24, 524 | P05, R05, P24, R24, 245, 645, R30 | SIN    |
| <b>GND</b>                   | WH       | WH                      | WH            | WH                                | WH     |
| <b>+UB</b>                   | BN       | BN                      | BN            | BN                                | BN     |
| <b>A</b>                     | GN       | GN                      | GN            | GN                                | GN     |
| <b>B</b>                     | YE       | YE                      | YE            | YE                                | GY     |
| <b>N</b>                     | GY       | GY                      | GY            | GY                                | -      |
| <b>Light reserve warning</b> | PK       | -                       | PK            | -                                 | -      |
| <b>A inv.</b>                | -        | -                       | RD            | RD                                | YE     |
| <b>B inv.</b>                | -        | -                       | BK            | BK                                | PK     |
| <b>N inv.</b>                | -        | -                       | VT            | VT                                | -      |
| <b>Shield</b>                | flex     | flex                    | flex          | flex                              | flex   |

**Connector (M16x0.75) SH, 5-, 6-, 8-, 12-pin**



**Description**

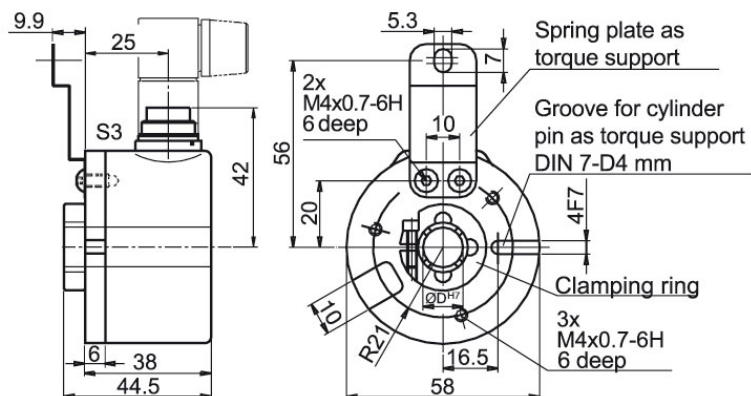
ABN inv. poss.

|             |                                                        |   |
|-------------|--------------------------------------------------------|---|
| <b>SH5</b>  | radial, 5-pin, Connector connected to encoder housing  | - |
| <b>SH6</b>  | radial, 6-pin, Connector connected to encoder housing  | - |
| <b>SH8</b>  | radial, 8-pin, Connector connected to encoder housing  | • |
| <b>SH12</b> | radial, 12-pin, Connector connected to encoder housing | • |

**Assignments**

|                              | <b>SH5</b>              | <b>SH6</b>   | <b>SH6</b>              | <b>SH8</b>              | <b>SH8</b>                        | <b>SH12</b>   | <b>SH12</b>             | <b>SH12</b>   | <b>SH12</b>                       | <b>SH12</b>   |
|------------------------------|-------------------------|--------------|-------------------------|-------------------------|-----------------------------------|---------------|-------------------------|---------------|-----------------------------------|---------------|
|                              | <b>5-pin</b>            | <b>6-pin</b> | <b>6-pin</b>            | <b>8-pin</b>            | <b>8-pin</b>                      | <b>12-pin</b> | <b>12-pin</b>           | <b>12-pin</b> | <b>12-pin</b>                     | <b>12-pin</b> |
|                              |                         |              |                         |                         |                                   |               |                         |               |                                   |               |
| <b>Circuit</b>               | F05, H05, F24, H24, H30 | G05, G24     | F05, H05, F24, H24, H30 | F05, H05, F24, H24, H30 | P05, R05, P24, R24, R30, 245, 645 | G05, G24      | F05, H05, F24, H24, H30 | I05, I24, 524 | P05, R05, P24, R24, 245, 645, R30 | SIN           |
| <b>GND</b>                   | 1                       | 6            | 6                       | 1                       | 1                                 | K, L          | K, L                    | K, L          | K, L                              | K, L          |
| <b>+UB</b>                   | 2                       | 1            | 1                       | 2                       | 2                                 | M, B          | M, B                    | M, B          | M, B                              | M, B          |
| <b>A</b>                     | 3                       | 2            | 2                       | 3                       | 3                                 | E             | E                       | E             | E                                 | E             |
| <b>B</b>                     | 4                       | 4            | 4                       | 4                       | 4                                 | H             | H                       | H             | H                                 | H             |
| <b>N</b>                     | 5                       | 3            | 3                       | 5                       | 5                                 | C             | C                       | C             | C                                 | -             |
| <b>Light reserve warning</b> | -                       | 5            | -                       | -                       | -                                 | G             | -                       | G             | -                                 | -             |
| <b>A inv.</b>                | -                       | -            | -                       | -                       | 6                                 | -             | -                       | F             | F                                 | F             |
| <b>B inv.</b>                | -                       | -            | -                       | -                       | 7                                 | -             | -                       | A             | A                                 | A             |
| <b>N inv.</b>                | -                       | -            | -                       | -                       | 8                                 | -             | -                       | D             | D                                 | -             |
| <b>n. c.</b>                 | -                       | -            | 5                       | 6, 7, 8                 | -                                 | A, D, F, J    | A, D, F, G, J           | J             | G, J                              | D, G, J       |
| <b>Shield</b>                | -                       | -            | -                       | -                       | -                                 | -             | -                       | -             | -                                 | -             |

## Connector (M16x0.75) S3, 7-pin



### Description

ABN inv. poss.

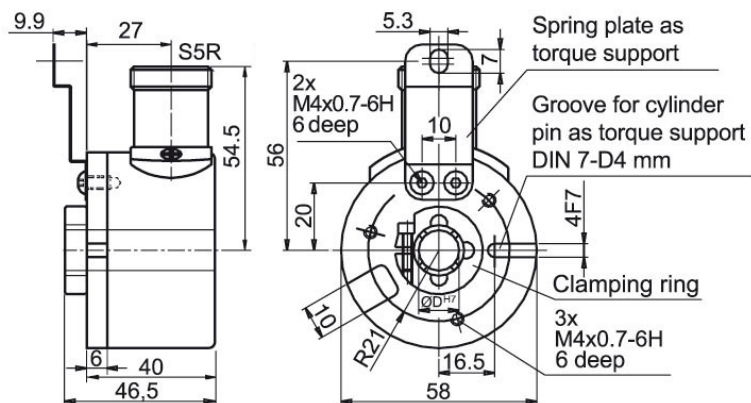
**S3** radial, 7-pin, Connector connected to encoder housing

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| Assignments           |             |                         |
|-----------------------|-------------|-------------------------|
|                       | S3<br>7-pin | S3<br>7-pin             |
|                       |             |                         |
| Circuit               | G05, G24    | F05, H05, F24, H24, H30 |
| GND                   | 1           | 1                       |
| +UB                   | 2           | 2                       |
| A                     | 3           | 3                       |
| B                     | 4           | 4                       |
| N                     | 5           | 5                       |
| Light reserve warning | 6           | -                       |
| A inv.                | -           | -                       |
| B inv.                | -           | -                       |
| N inv.                | -           | -                       |
| n. c.                 | 7           | 6, 7                    |
| Shield                | -           | -                       |



**Connector (M23) S5R, 12-pin (clockwise)**



**Description**

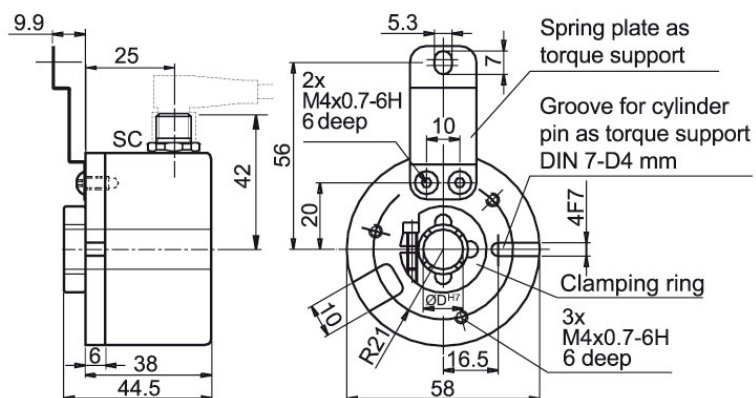
ABN inv. poss.

**S5R** radial, 12-pin, Connector connected to encoder housing

•

| Assignments           |                  |                         |               |                                   |                   |
|-----------------------|------------------|-------------------------|---------------|-----------------------------------|-------------------|
|                       | S5R              | S5R                     | S5R           | S5R                               | S5R               |
|                       | 12-pin           | 12-pin                  | 12-pin        | 12-pin                            | 12-pin            |
|                       |                  |                         |               |                                   |                   |
| Circuit               | G05, G24         | F05, H05, F24, H24, H30 | I05, I24, 524 | P05, R05, P24, R24, 245, 645, R30 | SIN               |
| GND                   | 10               | 10                      | 10            | 10                                | 10                |
| +UB                   | 12               | 12                      | 12            | 12                                | 12                |
| A                     | 5                | 5                       | 5             | 5                                 | 5                 |
| B                     | 8                | 8                       | 8             | 8                                 | 8                 |
| N                     | 3                | 3                       | 3             | 3                                 | -                 |
| Light reserve warning | 11               | -                       | 11            | -                                 | -                 |
| A inv.                | -                | -                       | 6             | 6                                 | 6                 |
| B inv.                | -                | -                       | 1             | 1                                 | 1                 |
| N inv.                | -                | -                       | 4             | 4                                 | -                 |
| n. c.                 | 1, 2, 4, 6, 7, 9 | 1, 2, 4, 6, 7, 9, 11    | 2, 7, 9       | 2, 7, 9, 11                       | 2, 3, 4, 7, 9, 11 |
| Shield                | -                | -                       | -             | -                                 | -                 |

**Sensor-connector (M12x1) SC, 4-, 5-, 8-, 12-pin**



**Description**

ABN inv. poss.

|             |                                                        |   |
|-------------|--------------------------------------------------------|---|
| <b>SC4</b>  | radial, 4-pin, Connector connected to encoder housing  | - |
| <b>SC5</b>  | radial, 5-pin, Connector connected to encoder housing  | - |
| <b>SC8</b>  | radial, 8-pin, Connector connected to encoder housing  | • |
| <b>SC12</b> | radial, 12-pin, Connector connected to encoder housing | • |

**Assignments**

|                              | <b>SC4</b>              | <b>SC5</b>              | <b>SC8</b>              | <b>SC8</b>                        | <b>SC12</b>         | <b>SC12</b>             | <b>SC12</b>   | <b>SC12</b>                       |
|------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|---------------------|-------------------------|---------------|-----------------------------------|
|                              | <b>4-pin</b>            | <b>5-pin</b>            | <b>8-pin</b>            | <b>8-pin</b>                      | <b>12-pin</b>       | <b>12-pin</b>           | <b>12-pin</b> | <b>12-pin</b>                     |
|                              |                         |                         |                         |                                   |                     |                         |               |                                   |
| <b>Circuit</b>               | F05, H05, F24, H24, H30 | F05, H05, F24, H24, H30 | F05, H05, F24, H24, H30 | P05, R05, P24, R24, R30, 245, 645 | G05, G24            | F05, H05, F24, H24, H30 | I05, I24, 524 | P05, R05, P24, R24, 245, 645, R30 |
| <b>GND</b>                   | 3                       | 3                       | 1                       | 1                                 | 3                   | 3                       | 3             | 3                                 |
| <b>+UB</b>                   | 1                       | 1                       | 2                       | 2                                 | 1                   | 1                       | 1             | 1                                 |
| <b>A</b>                     | 2                       | 4                       | 3                       | 3                                 | 4                   | 4                       | 4             | 4                                 |
| <b>B</b>                     | 4                       | 2                       | 4                       | 4                                 | 6                   | 6                       | 6             | 6                                 |
| <b>N</b>                     | -                       | 5                       | 5                       | 5                                 | 8                   | 8                       | 8             | 8                                 |
| <b>Light reserve warning</b> | -                       | -                       | -                       | -                                 | 5                   | -                       | 5             | -                                 |
| <b>A inv.</b>                | -                       | -                       | -                       | 6                                 | -                   | -                       | 9             | 9                                 |
| <b>B inv.</b>                | -                       | -                       | -                       | 7                                 | -                   | -                       | 7             | 7                                 |
| <b>N inv.</b>                | -                       | -                       | -                       | 8                                 | -                   | -                       | 10            | 10                                |
| <b>n. c.</b>                 | -                       | -                       | 6, 7, 8                 | -                                 | 2, 7, 9, 10, 11, 12 | 2, 5, 7, 9, 10, 11, 12  | 2, 11, 12     | 2, 5, 11, 12                      |
| <b>Shield</b>                | -                       | -                       | -                       | -                                 | -                   | -                       | -             | -                                 |

## Options

### Low temperature

The encoder WDG 58H with the output circuit types F24, G24, H24, I24, P24, R24, F05, G05, I05, P05, 645 is also available with the extended temperature range -40 °C up to +80 °C [-40 °F up to +176 °F] (measured at the flange).

### Order key

**ACA**

### Cable length

The encoder WDG 58H can be supplied with more than 2 m cable. The maximum cable length depends on the supply voltage and the frequency; see [www.wachendorff-automation.com/atd](http://www.wachendorff-automation.com/atd)

Please extend the standard order code with a three figure number, specifying the cable length in decimetres.

Example: 3 m cable = 030

### Order key

**XXX = Decimeter**

| Example Order No. | Type                                                                                                                                                                                                                                                                                                                                                 |                         |                            |                              | Your encoder     |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|------------------------------|------------------|
| WDG 58H           | WDG 58H                                                                                                                                                                                                                                                                                                                                              |                         |                            |                              | WDG 58H          |
|                   | <b>Bore size</b>                                                                                                                                                                                                                                                                                                                                     |                         |                            |                              |                  |
| 10                | 08; 10; 12; 3Z= Ø 12.7 mm, Ø 1/2"; 14                                                                                                                                                                                                                                                                                                                |                         |                            |                              |                  |
|                   | <b>Pulses per revolution PPR I/U (PPR):</b>                                                                                                                                                                                                                                                                                                          |                         |                            |                              |                  |
| 1024              | 4, 6, 10, 32, 36, 50, 60, 64, 100, 120, 125, 127, 150, 180, 200, 216, 240, 250, 254, 256, 300, 314, 360, 400, 500, 512, 600, 625, 720, 750, 768, 800, 810, 900, 1000, 1024, 1200, 1250, 1270, 1440, 1500, 1800, 2000, 2048, 2500, 3000, 3600, 4000, 4096, 5000, 10000, 12500, 20000, 25000<br>1 Vss Sin/Cos only 1024, 2048<br>Other PPRs on request |                         |                            |                              |                  |
|                   | <b>Channels:</b>                                                                                                                                                                                                                                                                                                                                     |                         |                            |                              |                  |
| ABN               | AB, ABN (SIN: AB)                                                                                                                                                                                                                                                                                                                                    |                         |                            |                              |                  |
|                   | <b>Output circuit</b>                                                                                                                                                                                                                                                                                                                                |                         |                            |                              |                  |
| G24               | <b>Resolution PPR</b>                                                                                                                                                                                                                                                                                                                                | <b>Power supply VDC</b> | <b>Output circuit</b>      | <b>Light reserve warning</b> | <b>Order key</b> |
|                   | up to 2500                                                                                                                                                                                                                                                                                                                                           | 5 - 30                  | HTL                        | -                            | H30              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 5 - 30                  | HTL inverted               | -                            | R30              |
|                   | up to 5000                                                                                                                                                                                                                                                                                                                                           | 4.75 - 5.5              | TTL                        | •                            | G05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 4.75 - 5.5              | TTL                        | -                            | H05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 4.75 - 5.5              | TTL, RS422 comp., inverted | •                            | I05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 4.75 - 5.5              | TTL, RS422 comp., inverted | -                            | R05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL                        | •                            | G24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL                        | -                            | H24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL inverted               | •                            | I24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL inverted               | -                            | R24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | TTL, RS422 comp., inverted | •                            | 524              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | TTL, RS422 comp., inverted | -                            | 245              |
|                   | 10000 up to 25000                                                                                                                                                                                                                                                                                                                                    | 4.75 - 5.5              | TTL                        | -                            | F05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 4.75 - 5.5              | TTL, RS422 comp., inverted | -                            | P05              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL                        | -                            | F24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | HTL inverted               | -                            | P24              |
|                   |                                                                                                                                                                                                                                                                                                                                                      | 10 - 30                 | TTL, RS422 comp., inverted | -                            | 645              |
|                   | 1024, 2048                                                                                                                                                                                                                                                                                                                                           | 4.75 - 5.5              | 1 Vpp sin/cos              | -                            | SIN              |
|                   | <b>Electrical connections</b>                                                                                                                                                                                                                                                                                                                        |                         |                            |                              |                  |
| K3                | <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                                                                                                                                                                                                                                                                                                                         |                         | •                          | K3                           |                  |
|                   | radial, shield connected to encoder housing                                                                                                                                                                                                                                                                                                          |                         | •                          | L3                           |                  |
|                   | <b>Connector: (shield connected to encoder housing)</b>                                                                                                                                                                                                                                                                                              |                         |                            |                              |                  |
|                   | connector, M16x0.75, 5-pin, radial                                                                                                                                                                                                                                                                                                                   |                         | -                          | SH5                          |                  |
|                   | connector, M16x0.75, 6-pin, radial                                                                                                                                                                                                                                                                                                                   |                         | -                          | SH6                          |                  |
|                   | connector, M16x0.75, 8-pin, radial                                                                                                                                                                                                                                                                                                                   |                         | •                          | SH8                          |                  |
|                   | connector, M16x0.75, 12-pin, radial                                                                                                                                                                                                                                                                                                                  |                         | •                          | SH12                         |                  |
|                   | connector, M16x0.75, 7-pin, radial                                                                                                                                                                                                                                                                                                                   |                         | -                          | S3                           |                  |
|                   | connector, M23, 12-pin, radial                                                                                                                                                                                                                                                                                                                       |                         | •                          | S5                           |                  |
|                   | connector, clockwise pin count, M23, 12-pin, radial                                                                                                                                                                                                                                                                                                  |                         | •                          | S5R                          |                  |
|                   | sensor-connector, M12x1, 4-pin, radial                                                                                                                                                                                                                                                                                                               |                         | -                          | SC4                          |                  |
|                   | sensor-connector, M12x1, 5-pin, radial                                                                                                                                                                                                                                                                                                               |                         | -                          | SC5                          |                  |
|                   | sensor-connector, M12x1, 8-pin, radial                                                                                                                                                                                                                                                                                                               |                         | •                          | SC8                          |                  |
|                   | sensor-connector, M12x1, 12-pin, radial                                                                                                                                                                                                                                                                                                              |                         | •                          | SC12                         |                  |

| Options         |                 |  |
|-----------------|-----------------|--|
| Description     | Order key       |  |
| Without option  | Empty           |  |
| Low temperature | ACA             |  |
| Cable length    | XXX = Decimeter |  |

|                           |         |    |      |     |     |    |  |         |  |  |  |  |  |  |                     |
|---------------------------|---------|----|------|-----|-----|----|--|---------|--|--|--|--|--|--|---------------------|
| <b>Example Order No.:</b> | WDG 58H | 10 | 1024 | ABN | G24 | K3 |  | WDG 58H |  |  |  |  |  |  | <b>Your encoder</b> |
|---------------------------|---------|----|------|-----|-----|----|--|---------|--|--|--|--|--|--|---------------------|



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