

Guided cable shaft copying WDGMS



Specifications of encoder:

Available PPR:

4, 9, 10, 15, 20, 25, 28, 30, 36, 40, 50, 60, 90, 100, 120, 125, 128, 150, 160, 180, 200, 235, 250, 300, 314, 318, 360, 400, 500, 600, 635, 720, 900, 1000, 1024, 1080, 1200, 1250, 1500, 1800, 2000, 2048, 2500. (Other PPRs on request)

Mechanical Data

Housing

- Screw flange: Aluminium
 - Cap: Aluminium, powder coated
 Diameter: 40 mm

Shaft

- Material: stainless steel
 - Diameter: 6 mm with flat
 - Length: 13 mm
 - Permitted load on shaft end: max. 80 N radial, max. 50 N axial
 - Starting torque: approx. 0.2 Ncm at ambient temperature

Bearings

- Type: 2 precision ball bearings
 - Service life: 1x 10⁸ revs. at 100 % shaft load, 2x 10⁹ revs. at 40 % shaft load, 1x 10¹⁰ revs. at 20 % shaft load

Max. operating speed: 12000 rpm

Weight: approx. 300 g with cable

Connections: K2-030: cable axial with 3 m cable

Protection rating : IP67, shaft sealed to IP65 (EN 60529)

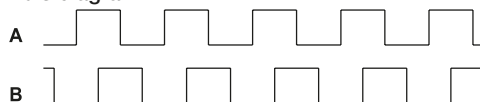
Operating temperature: -20 °C up to +85 °C

Storage temperature: -30 °C up to +85 °C

Machinery Directive: basic data safety integrity level

MTTF_d: 200 a
 Mission time (T_M): 25 a
 Nominal service life (L_{10h}): 1x 10¹⁰ revs. at 12000 rpm and 20 % rated shaft load
 Diagnostic coverage (DC): 0 %

Puls diagram:



Customs tariff number: 90318020

Country of origin: Germany

2024-04-08 / Errors and modifications reserved.

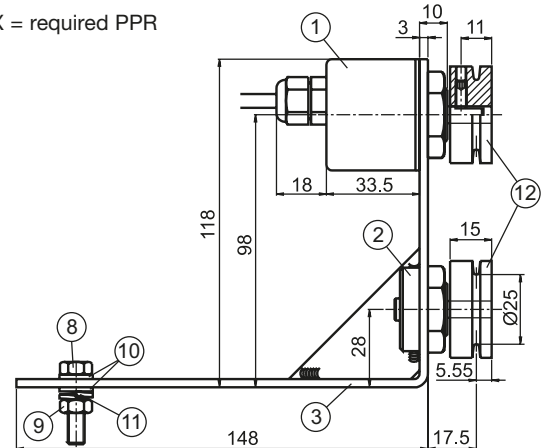
- Complete Measuring System for Length Measurement
- No slip when speed below 1 m/s
- Height typically 17 stops, approx. 53 m
- Resolution until 0.03 mm
- Quick assembly
- Applications: digital shaft copy for lifts, exact measurement of distance and speed

www.wachendorff-automation.com/wdgms

The guided cable shaft copying WDGMS comprises:

- | | |
|------------------------------|------------------------------------|
| 1 WDG 40S-XXXX-AB-H24-K2-030 | 1x WDG 40S according to data sheet |
| 2 Redirect pulley | 1x PULLEY-ZVK (incl. Nut) |
| 3 Mounting angle | 1x MKMWRT0001-ZVK |
| 4 Weight | 1x MKGERT0000-ZVK |
| 5 Spring | 1x FESFWDG001-ZVK |
| 6 Ring screw | 2x SC80RS50Z0-ZVK (not shown) |
| 7 Dowel I | 2x MKDBM8SKU0-ZVK ((not shown)) |
| 8 Screws M6 x 25 | 2x SC60HG25Z0-ZVK |
| 9 Nuts M6 | 2x MUM0M60000-ZVK |
| 10 Washers U6 | 4x US601612M0-ZVK |
| 11 Spring washers U6 | 2x US601612M1-ZVK |
| 12 Roll of wire | 2x MKRS635150-ZVK |

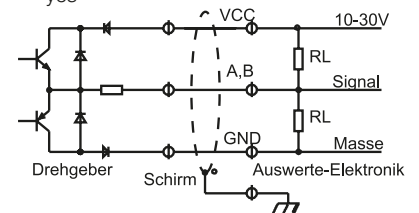
XXXX = required PPR



Measurement drawing WDG-MS-40S-XXXX, dimensions in mm

Electrical Data:

Power supply: 10 VDC up to 30 VDC
 Current consumption: max. 70 mA
 Channels: A, B
 Output: push-pull, max. 40 mA
 Load: to 20 mA
 Signal level: H > U - 2.5 VDC, L < 2.5 VDC
 Pulse frequency: 200 kHz
 Circuit protection: yes



Ordering information:

Description:	Order No.:
Measuring System XXXX = Please specify required PPR (Roll of wire Ø 25 mm)	WDG-MS-40S-XXXX
Accessories: Measuring wire xxx = length in meters Example: Measuring wire, 1 m length	WDGMSXXXX WDGMS001