

MEASURING GEAR - ZRM



- Measuring gear made of POM plastic
- Colour: black (white on request)
- Temperature range: -40 °C to +150 °C
- Tooth shape: involute (other shapes on request)
- Number of teeth and module on request
- Application-dependent special solutions are possible

KEY INFORMATION OVERVIEW

DESIGN & FUNCTION

The ZRM measuring gear allows the measurement of gear or rack positions by means of a rotary encoder. It engages in a slewing ring and the rotary encoder detects the position of the slewing ring via the transmission ratio i .

The design of the shaft mount (12 mm, flattened to 11 mm) ensures torsion-free mounting. By using EPC encoders with the special shaft design for gear wheels, captive mounting on the encoder is possible. Fastening material for attaching the ZRM to EPC encoders is supplied. Special, customer-specific shaft designs are available on request.

The basic version (standard) consists of a measuring gear with involute tooth form and without profile shifting.

The measuring gear is designed for use in cranes, wind turbines and mobile machines.

FEATURES OF ASSOCIATED EPC ROTARY ENCODERS

On request, a special slewing ring software developed by EPC is available for EPC multiturn encoders, which reliably converts the position of the sensor shaft position to the position of the slewing ring when using a slewing ring gear.

This also applies if the shaft is turned as far as required in one direction and the measuring range is therefore traversed completely and several times.

Even when switched off, the encoder shaft may be turned by at least 1024 revolutions. The position is output correctly after switching on again.

MEASURING GEAR - ZRM

TECHNICAL DATA

MECHANICAL DATA

Material Plastic (POM-C)
 Temperature range - 40 °C to + 150 °C
 Colour Black
 Face pressure angle 20°
 Shaft mounting Ø 12 mm, flattened to 11 mm

ORDER CODE FORMAT

STANDARD VERSION

ZRM	- 20	- 13	- A01
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ZRM	Measuring gear		
20	Module	20	Module of the measuring gear
13	Number of teeth	13	Number of teeth of the measuring gear
A01	Variants*	A01	Standard

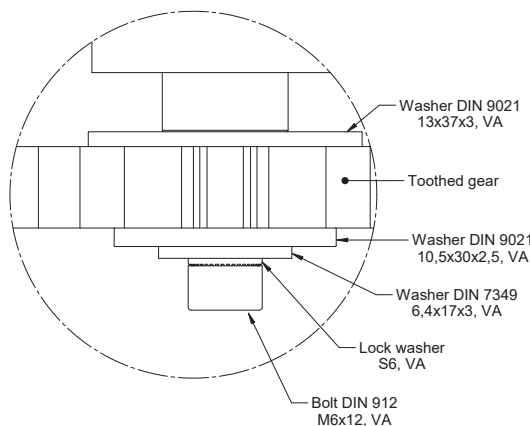
The standard wheels are manufactured without profile shift. Please ask our technical engineers for details and deliverability.

ACCESSORY AND ASSEMBLY

SCOPE OF DELIVERY ZRM

Measuring gear ZRM
 Washer DIN 9021-A2-13 1 pc
 Washer DIN 9021-A2-10.5 1 pc
 Washer DIN 7349-A2-6.4 1 pc
 Lock washer A2 S6 1 pc
 Screw A2 DIN 912 - M6x12 1 pc

ASSEMBLY INSTRUCTION



DOCUMENTATION

DOCUMENTATION

Data sheet ZRM13229
 CE Declaration of Conformity ZE12467
 UKCA Declaration of Conformity ZE16569
 Reach compliant QS15286
 RoHS compliant QS13284

* The basic versions according to the data sheet bear the number 01. Deviations are marked with a variant number and documented at EPC.

