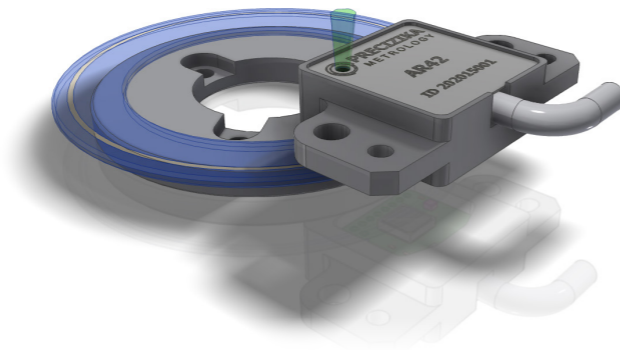


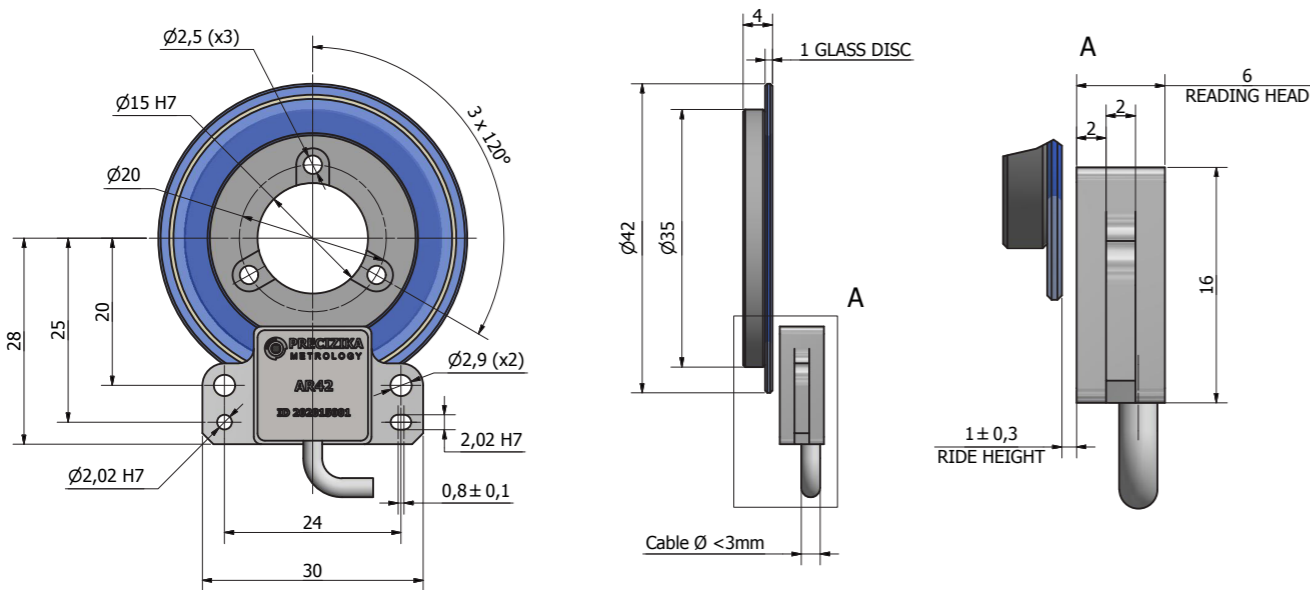
# AR SERIES

AR42



The AR42 is a compact design incremental modular rotary encoder which is particularly suitable for applications with limited installation space. The absence of

integral bearings eliminates initial starting torque. Set-up LED allows easy mechanical adjustment.



## MECHANICAL DATA

Maximum shaft speed	20000 rpm	Operating temperature	-40...+105 °C
Protection (IEC 529)	IP00	Storage temperature	-54...+105°C
Max. weight - Reading head	< 0.01 kg (without cable)	Maximum humidity (non-condensing)	98 %
- Glass disc	< 0.002 kg		

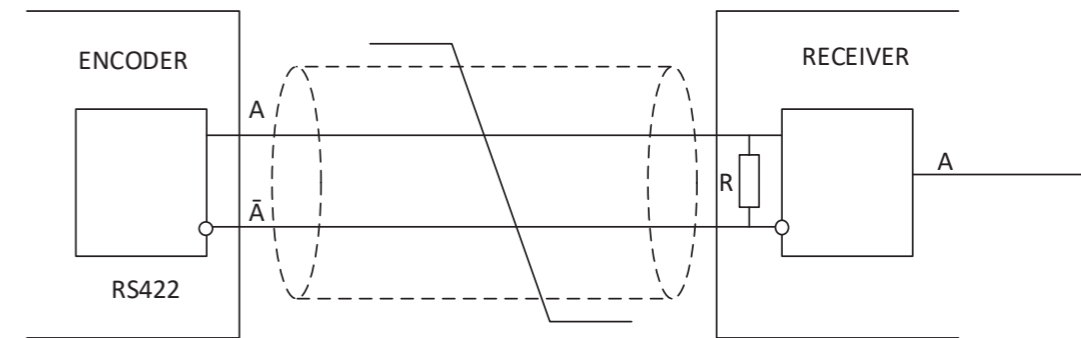
## ELECTRICAL DATA

Accuracy*	$\leq \pm 10''$	Resolution (default)	11 bit (2048 ppr / 8192 cpr)
Output code	Binary	Resolution (optional)	any number from 1 to 11 796 480 (MAX. 184 320 at 3000rpm)
Data interface	BiSS C		
Supply voltage	+5V $\pm$ 5%		
Supply current	80 - 260 mA		
Start up time	13 ms		

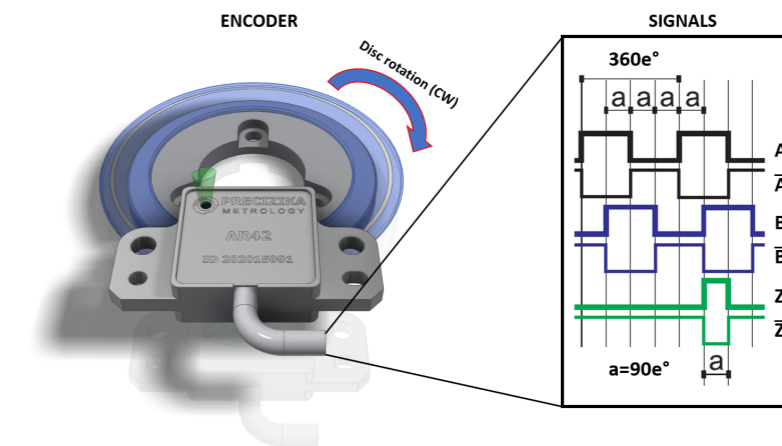
\*Expected at optimum installation, additional deviations due to mounting and inaccuracy of the measured shaft are not taken into account.

## INTERFACE

### TYPICAL CONNECTION



### INCREMENTAL SIGNAL



B lags A for clockwise direction (viewing from the top)

ABZ	SYMBOL	MIN.	TYP.	MAX.	UNIT
High level output voltage	$V_{OH}$	2.4	3.3		$V_{DC}$
Low level output voltage	$V_{OL}$		0.2	0.7	$V_{DC}$
Output current per channel	$I_{OUT}$			20	mA
Rise time	$t_{rise}$		20		ns
Fall time	$t_{fall}$		20		ns

This is just one example of a tailor made encoder kit. For other mechanical, electrical configurations or different interface options please contact us directly: [sales@precizika.com](mailto:sales@precizika.com)