

# AR34M



BiSS protocol



Modular



## MECHANICAL DATA

Vibrations:	
- operational	3.17 G's RMS 20÷2000 [Hz] for 5 [min], along three major axes
- storage	15 G's RMS 10÷2000 [Hz] for 4 [hour], along three major axes

## ELECTRICAL DATA

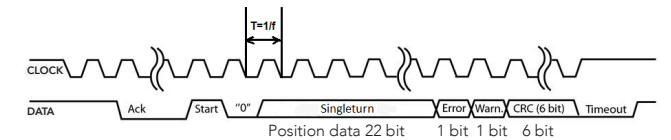
Rotation Speed	5000 RPM (mechanical survival) Up to 300 RPM - full electrical performance
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## INSTALLATION ERROR

$$\Delta\Phi = \pm 412 \times 0.5r / D \quad D = 25,92 \text{ mm}$$

## INTERFACE

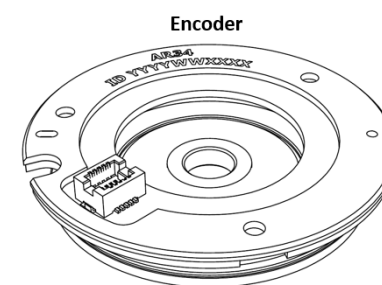
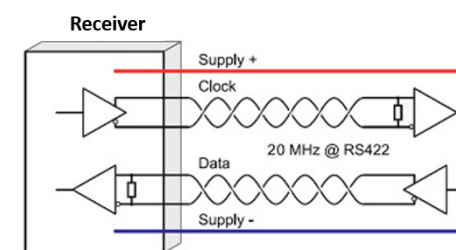
## ABSOLUTE DIGITAL INTERFACE



More detailed information (BiSS-Interface AN3: CYCLIC REDUNDANCY CODES)  
All values are transmitted MSB first.

\* $t_{init}$  measured as first  $1.5 \cdot T(MA)$  each frame

### TYPICAL OPERATING CIRCUIT FOR BISS



SIGNAL	PIN. NO
Gnd	5
Vdd(+5V)	6
Clk-	3
Clk+	4
Data-	1
Data+	2
NC	7
Z	8
B	9
A	10

## CONNECTOR

Hirose connector: DF12NC(3.0)-10DP-0.5V(51)

## ORDER FORM

AR34M - X1 - X2 - X3 - X4 - X5 - X6

Interface (X1):	Singleturn bit number (X2):	Code (X3):	Single-ended Incremental Signal Resolution (X4)	Cable length (X5):	Connector type (X6):
<b>S</b> - SSI <b>B</b> - BiSS C	<b>B1</b> - 1 <b>B22</b> - 22	<b>B</b> - Binary <b>G</b> - Gray (only for SSI interface)		<b>T100</b> - 0.1 m <b>T1000</b> - 1 m (standard) <b>T4500</b> - 4.5 m (maximum)	<b>D9</b> - flat, 9 pins (standard) <b>W</b> - without connector <b>B12</b> - round, 12 pins <b>C9</b> - round, 9 pins <b>C12</b> - round, 12 pins <b>R510</b> - round, 10 pins <b>ONC</b> - round, 10 pins

ORDER EXAMPLE: 1) AR34M-S-B22-B-X-T100-W