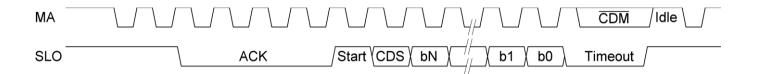
More information on BiSS protocols is available on the BiSS website: www.biss-interface.com

LENZ BISS C B3 – bidirectional point-to-point isochronous interface for fast acquiring angle data, read Electronic Data Sheet (EDS) and configure encoder.

MA - Clock pulse output of the BiSS C master;

SLO - Data output of the BiSS C slave;



Ack size - 4 T<sub>MA</sub>;

SCD size - 32 bits: b31...b0;

Position data size - 24 bits: b31...b8;

Error bit b7 – logic high when angle data is valid or not fully initialized;

Warning bit b6 - logic low, when absolute position can't recover on restart or air gap too high;

CRC6 b5...b0 – the CRC polynomial for position, error and warning data is:  $x^6 + x^1 + x^0$ , start 0, output inverted.

## Timing information

	Minimum	Typical	Maximum
MA clock frequency, 1/T <sub>MA</sub> , MHz	0.1		5*
BISS timeout, us - during SCD reading - during register access	12.6 13.5	12.9 14	13.2 14.5
Delay MA $\rightarrow$ SL include slave, MA input and SLO output RS485 drivers delays, ns		50	
Line delay due to cable length, MA + SLO, ns/m		10	
Idle time, ns	100		
SCD request rate, kHz $1/T_{MA} = 5$ MHz, Idle = 100 ns			47.5

<sup>\*</sup> Contact us for MA frequency up to 12.5 MHz