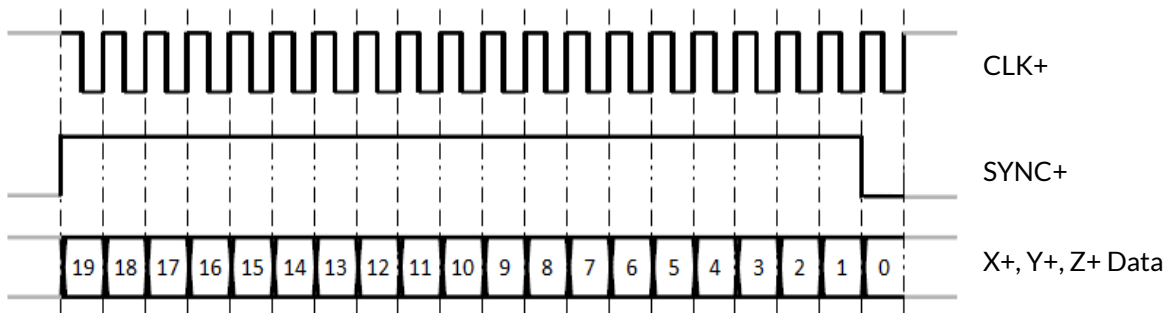# XY2-100 Laser Scanner
Protocol Format Specification

XY2-100 protocol description

Data transmitted at the XY2-100 connector (typically a DB25 plug):

The rising edge on SYNC marks the beginning of a XY2-100 frame, the falling edge on SYNC signals the beginning of the last bit of the current XY2-100 frame. Data are valid on falling edge on CLK.

In standard 16 bit operating mode first three bits are set to 001, then 16 bit position data followed by a parity bit (even parity) are transmitted:

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	1	D15..D0 position data																Pe

In enhanced XY2-100 18 bit operating mode first bit is set to 1, then 18 bit position data followed by a parity bit (odd parity) are transmitted:

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	D17..D0 position data																		Po

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