

TTLMX

Encoder multiplexer module Specification

Electrical characteristics

- Supply voltage: +5 V+/-5% xxx mA without encoder
- MTBF: 70 000 h 50°C

Mechanical characteristics

- Dimensions: xx mm
- Weight: kg

Environmental characteristics

- Operating temperature: +10 °C ... +50 °C
- Storage temperature: -10 °C ... +50 °C
- Operating relative humidity: max.95% (no condensation)
- Storage relative humidity: max. 95% (no condensation)
- Sea-level altitude: -300m ... +3000 m
- Shock resistance: 15g/0,33 ms
- Vibration: 1 g/5 ... 2000 Hz

EMC

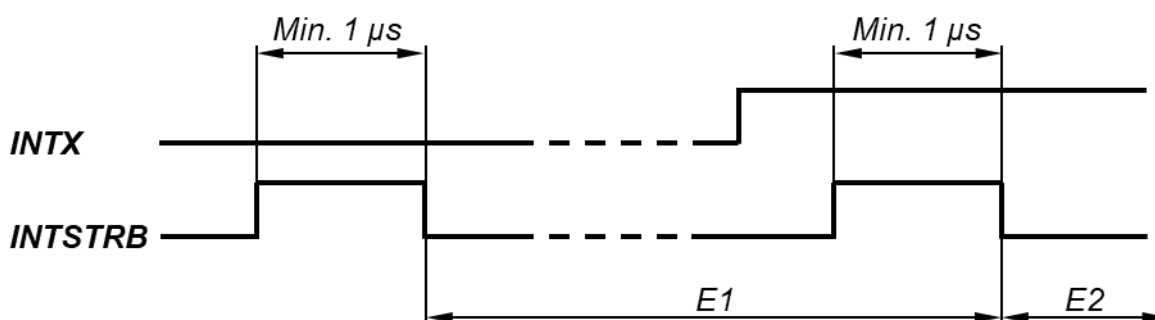
- EN 61000-4-2 (ESD)
- EN 61000-4-4 (burst)
- EN 61000-4-10 (voltage drop, interruption, change)



Operation

The TTLMX unit is able to receive two TTL encoders. Signals from the selected encoder are sent to the output connector.

Choice between the two encoders is executed by the INTX and the INTSTRB signals in the following way:



The value of INTX at the trailing edge of INTSTRB determines the selected input encoder the signals of which get to the output.

INTX and INTSTRB are +24 V interface signals separated by an optocoupler on the card.

On the card, LEDs indicate the selected encoder:

- D5 green: ENCIN1
- D6 green: ENCIN2

When switched on, the encoder ENCIN1 is selected.

Connector assignments

Controller connector

INT1

INTX	1
INTSTRB	2
IOV	3

Encoder connectors

TTL-compatible inputs

DSUB 15-pin female connector with NCT signal assignment.

ENCIN1

A1	1
A1N	9
B1	10
B1N	3
C1	4
C1N	12
5V	5,14
GND	2,11
Shielding	Connector body

ENCIN2

A2	1
A2N	9
B2	10
B2N	3
C2	4
C2N	12
5V	5,14
GND	2,11
Shielding	Connector body

Output

TTL-compatible 3-state outputs.

DSUB 15-pin male connector with NCT signal assignment.

ENCOUT

A	1
AN	9
B	10
BN	3
C	4
CN	12
5V	5,14
GND	2,11
Shielding	Connector body