NC Insertable Module MSR 261

This input module has 2 independent counter stages for incremental encoder with a RS422 level. The module provides a 16-bit counter resolution with a maximum input frequency of 125 kHz.

Technical Data

Incremental encoder connection

Number of channels	2
Input signals	Incremental encoder signals (A, /A, B, /B, R, /R) RS422 level with a 150 Ω termination
Input frequency	Maximum 125 kHz
Counter frequency	Maximum 500 kHz
Signal evaluation	4X
Counter resolution	16 bits

Output voltage

Output voltage	+5 V / Short circuit protected 4.5 V – 5.5 V / 0.1 A 4.0 V – 5.5 V / 0.2 A
Total current 5 V per module	400 mA
Total current 5 V per base	1.6 A
Total current 5 V per system	3 A

CAUTION:
An external supply cannot be connected, rather the modules power supply MUST be used!

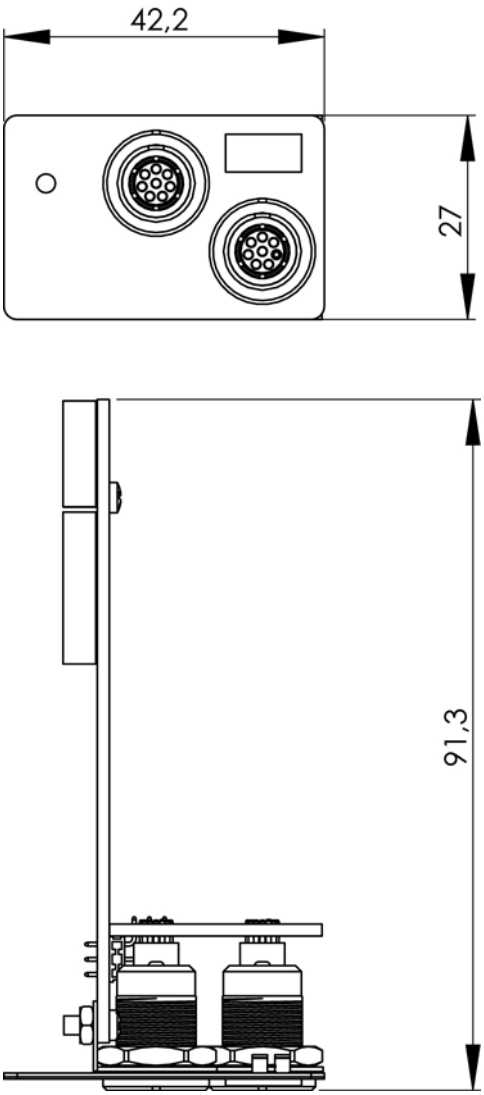
Miscellaneous

Article number	18-001-261
Hardware version	1.x

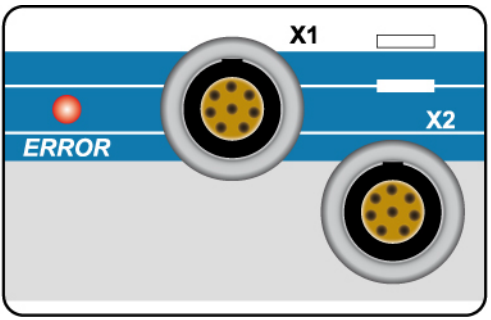
Environmental conditions

Storage temperature	-30 – +85 °C	
Operating temperature	0 – +60 °C	
Humidity	0 - 95 %, uncondensed	
EMV stability	According to EN 61000-6-2:2001 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s²
Protection Type	EN 60529	IP 20

Mechanical Dimensions



Connector Layout



X1: NC 1
Lemo 8-pin (EGG.1B.308.CLN)

Pin	Function
1	1A-
2	1A+
3	1B-
4	1B+
5	1R-
6	1R+
7	GND
8	+5 V encoder supply

X2: NC 2
Lemo 8-pin (EGG.1B.308.CLN)

Pin	Function
1	2A-
2	2A+
3	2B-
4	2B+
5	2R-
6	2R+
7	GND
8	+5 V encoder supply

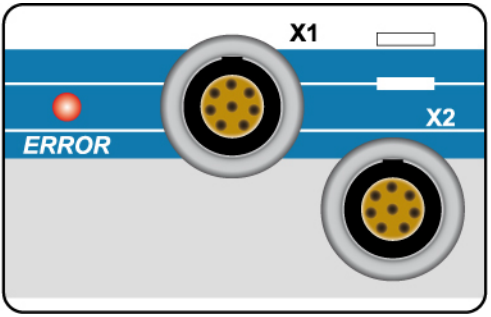
Applicable connectors

X1 - X2: FGG.1B.308.CLADxx

Applicable connection marker

Weidmüller MultiFit MF 10/5 MC CABUR
Order number: 1854510000

Status display



LED number	LED color	Definition
1	RED	Error

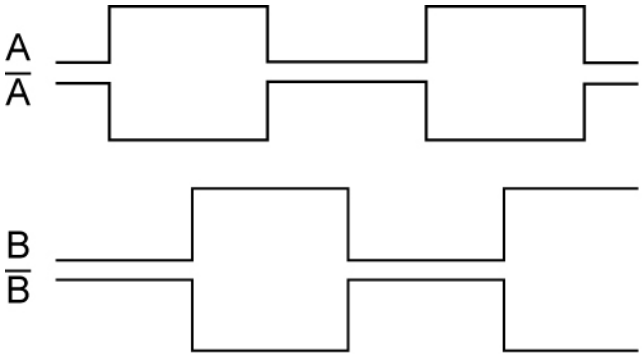
Wiring Guidelines

To ensure error-free operation, a careful wiring method must be followed:

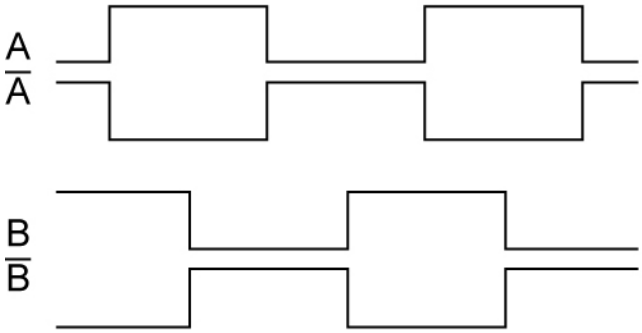
- The signal lines must be shielded.
- The shielding must be attached to the connector.

Incremental Encoder Signals

Count-UP



Count-DOWN



Reference pulse