



Main Features

- 2 dual-channel safety digital output with 2.5 kV isolation
- Compliant to IEC 61508 SIL 3/HFT=1, and ISO 13849, PL=e/Cat.3.
- Palm-sized EtherCAT I/O module
- Smart Daisy-chain Design
- On-module LED indicators
- Detachable screw terminals

Product Overview

NexCOBOT's NEIO-1203-S is compact palm-sized Safety Digital Output modules that offer functional safety compatibility with SIL 3/HFT=1 and PL=e/Cat.3. The NEIO-1203-S features 4 channels of digital output (2 dual-channel outputs with Cat.3 compatibility) for controlling external safety devices, providing a 24 V_{DC} output. The Safety Controller can easily manage these outputs through FSoE.

Specifications

Safety Digital Output

- Number of Inputs: 4 (2 dual-channel)
- Max. Output Current: 500 mA/CH
- Threshold Voltage:
 - ON: output voltage > 18 V_{DC}
 - OFF: Output voltage < 3 V_{DC}
- Isolation Protection: 2.5 kV

Power Requirements

- DC Input Range: 24 V_{DC} (-15% ~ +20% acc. to EN/IEC 61131-2, SELV/PELV)

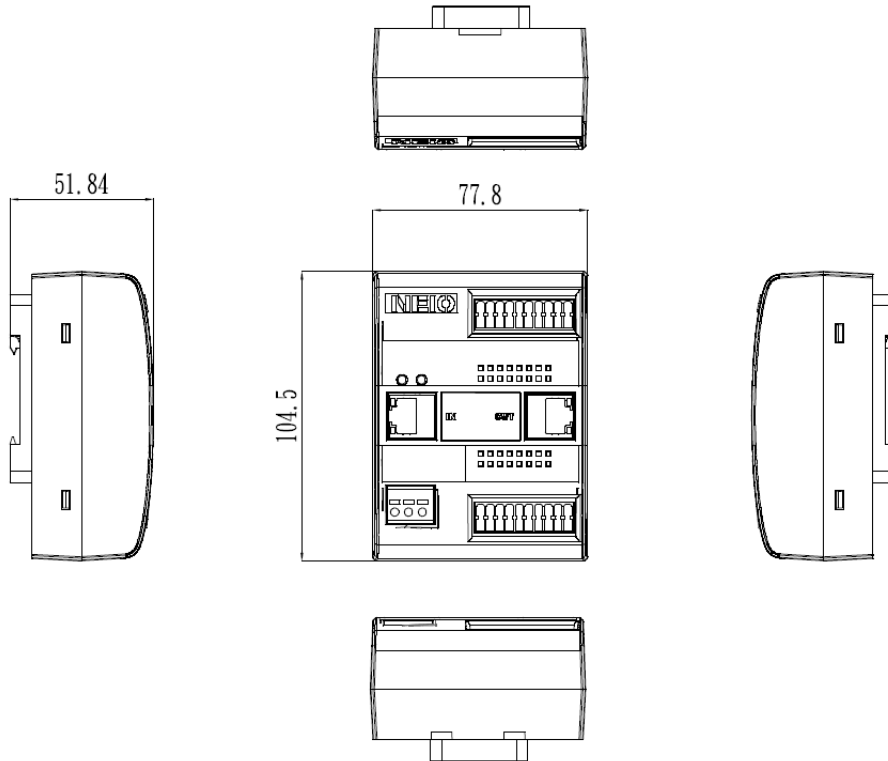
Communication

- Protocol: EtherCAT
- Bus Interface: 2 x RJ-45
- Media: Ethernet cable (min. CAT5), shielded
- Distance Between Stations: maximum. 100m (100BASE-TX)
- Data Transfer Rate: 100 Mbps

Mechanical Information

- Dimensions (W x H x D): 77.8 x 104.5 x 51.84 mm
- Mounting: Din-rail (35 mm mounting clip)

Dimension Drawing



Environment

- Operating Temperature: 0 °C ~ 55 °C
- Storage Temperature: -40 °C ~ 70 °C
- Relative humidity: 5 ~ 95% (non-condensing)
- Altitude: ≤ 2000 m
- Over Voltage category: II (EN/IEC 61131-2)
- Pollution Degree: II (EN/IEC 60664-1)

Certifications

- CE/FCC Class A

Ordering Information

NEIO-1203-S (P/N: TBC)

2 Dual-channel Safety Digital Output EtherCAT Slave Module