



### Main Features

- 4 dual-channel safety digital input 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-1103-S is a compact palm-sized Safety Digital Input module that offers functional safety compatibility with SIL 3/HFT=1 and PL=e/Cat.3. The NEIO-1103-S includes 8 channels of digital input (4 dual-channel inputs with Cat.3 compatibility) for receiving signals from external sensors or devices. These received signals are then transmitted to the Safety Controller via FSoE (Functional Safety over EtherCAT).

### Specifications

#### Digital Input

- Number of Inputs: 8 ( 4 dual-channel)
- Input Voltage: 24 V<sub>DC</sub>
- Threshold Voltage:
  - High: 11~30 V<sub>DC</sub>
  - Low: 0~5 V<sub>DC</sub>
- Isolation Protection: 2.5 kV

#### Power Requirements

- DC Input Range: 24 V<sub>DC</sub> (-15% ~ +20% acc. to EN/IEC 61131-2, SELV/PELV)

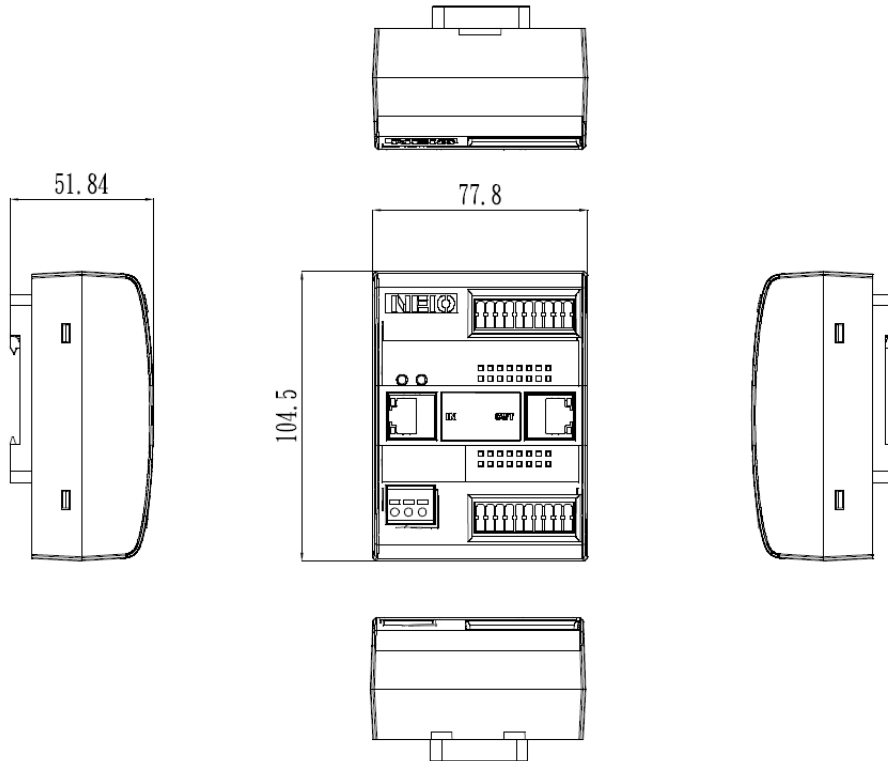
#### Communication

- 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-1103-S (P/N: TBC)

4 Dual-channel Safety Digital Input EtherCAT Slave Module