# Product datasheet

Specifications



## Discrete Input Module + Base, 2 Isolated In, 100V to 240V AC, Sink, 1/2/3 Wires, Hardened, Modicon Edge I/O NTS

NTSDAI0215HK

**EAN Code: 3606486877500**

## Main

| | |
|---|---|
| **Range of product** | Modicon Edge I/O NTS |
| **Product or component type** | Discrete input module kit |
| **Kit composition** | NTSDAI0215H module<br>NTSXBA0100H base |
| **Mandatory accessory** | NTSXTB12_1_H terminal block |
| **Product compatibility** | NTSN..... |
| **Range compatibility** | Logic/motion controller - Modicon M262<br>Modicon M580<br>Third party |
| **Device application** | Industrial application in severe environment |
| **Discrete input number** | 2 |
| **Group of input channels** | 2 groups of 1 channel |
| **Discrete input voltage** | 100...240 V AC |
| **Operating mode** | Asynchronous |

## Complementary

| | |
|---|---|
| **Discrete input compatibility** | 2 type 1 conforming to IEC 61131-2 |
| **Input wiring mode** | 1, 2 or 3 wires |
| **Discrete input current** | 3.6 mA at 120 V AC 50 Hz<br>7.1 mA at 230 V AC 50 Hz |
| **Voltage state 1 guaranteed** | >= 79 V |
| **Voltage state 0 guaranteed** | <= 40 V |
| **Current state 1 guaranteed** | >= 2 mA |
| **Discrete input frequency** | 47...63 Hz |
| **Response time on input** | 5.8 ms (on to off) |
| **Input filtering** | 5.8...20 ms configurable in 0.1 ms step |
| **Input diagnostic** | External power supply error per channel<br>Broken wire error per channel |
| **Power supply type** | Bus power from power supply bus (24 Vdc)<br>Field power from external power supply (100...240 Vac) |
| **Rated operational voltage limits** | 85...264 V AC 47...63 Hz |
| **Typical current consumption** | 26.4 mA at 24 V DC on the Bus current<br>0 mA at 24 V DC on the internal field current |
| **Electrical connection** | Screw/spring terminal block |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Power dissipation in W** | 1.17 W maximum at 24 V DC |
| **Isolation between channels** | 1780 V AC |
| **Isolation between channels and bus** | 3000 V AC |
| **Isolation between channels and ground** | 3000 V AC |
| **Hot swapping fallback** | Yes |
| **Local signalling** | 1 LED (green) for module operating (RUN)<br>1 LED per channel (green) for channel diagnostic<br>1 LED (red) for module error (ERR) |
| **Housing colour** | Grey |
| **Height** | 116.6 mm |
| **Width** | 15 mm |
| **Depth** | 81 mm |
| **Net weight** | 0.073 kg |

## Environment

| | |
|---|---|
| **IP degree of protection** | IP20 |
| **Protective treatment** | Conformal coating |
| **Marking** | CE<br>UKCA<br>CULus<br>RCM |
| **Product certifications** | CE<br>UKCA<br>CULus<br>RCM<br>Merchant Navy - EU RO MR (pending)<br>EAC (pending)<br>ATEX Zone 2 (pending)<br>IECEx zone 2 (pending)<br>CCC Ex zone 2 (pending) |
| **Standards** | EN/IEC 61131-2<br>EN 61010-2-201<br>UL 61010-2-201<br>IACS E10<br>EN/IEC 61000-6-5, interface type 1 and type 2<br>EN/IEC 61850-3, location G<br>EN/IEC 60079-0<br>EN 50155<br>EN 50121-4<br>EN 50121-5 |
| **Directives** | 2014/30/EU - electromagnetic compatibility<br>2014/34/EU - ATEX directive<br>2014/35/EU |
| **Ambient air temperature for operation** | -40…70 °C |
| **Ambient air temperature for storage** | -40…85 °C |
| **Relative humidity** | 5…95 % without condensation |
| **Operating altitude** | 0...2000 m without derating<br>2000...5000 m with derating |
| **Pollution degree** | 2 |
| **Environmental characteristic** | Gas resistant CX & GX combined<br>Salt spray resistant |
| **Vibration resistance** | 1 g without accessory<br>2 g with accessory |
| **Shock resistance** | 15 g for 11 ms (with and without accessory) |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 3.000 cm |
| **Package 1 Width** | 8.500 cm |
| **Package 1 Length** | 12.000 cm |
| **Package 1 Weight** | 99.000 g |
| **Unit Type of Package 2** | S01 |
| **Number of Units in Package 2** | 16 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 15.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 1.878 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | ID |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **28 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **5 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.1 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **22 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.2 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |

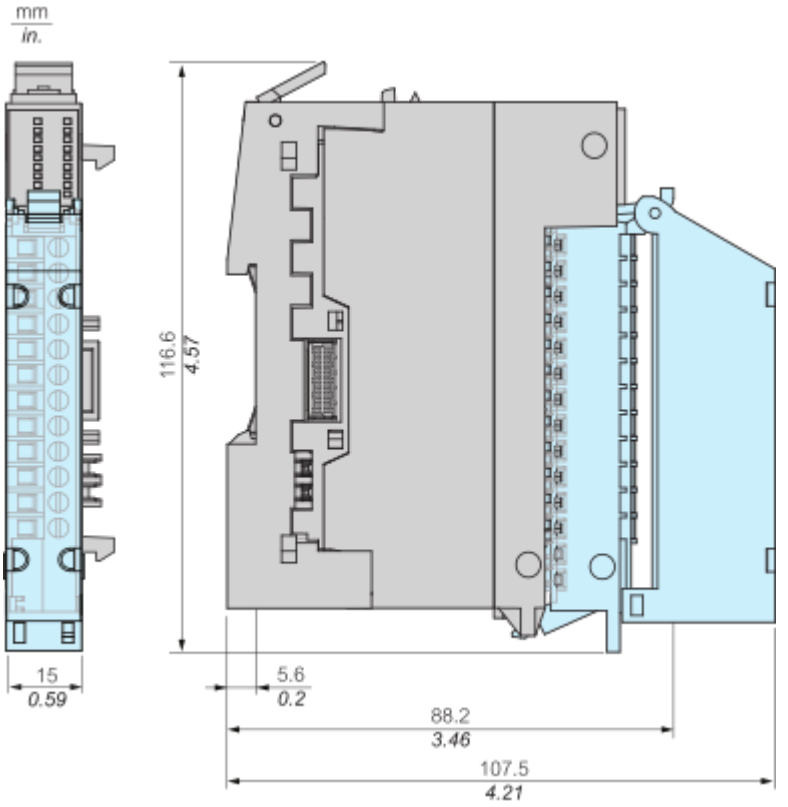
## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **0** |
| End of life manual availability | End of Life Information |
| Take-back | **No** |

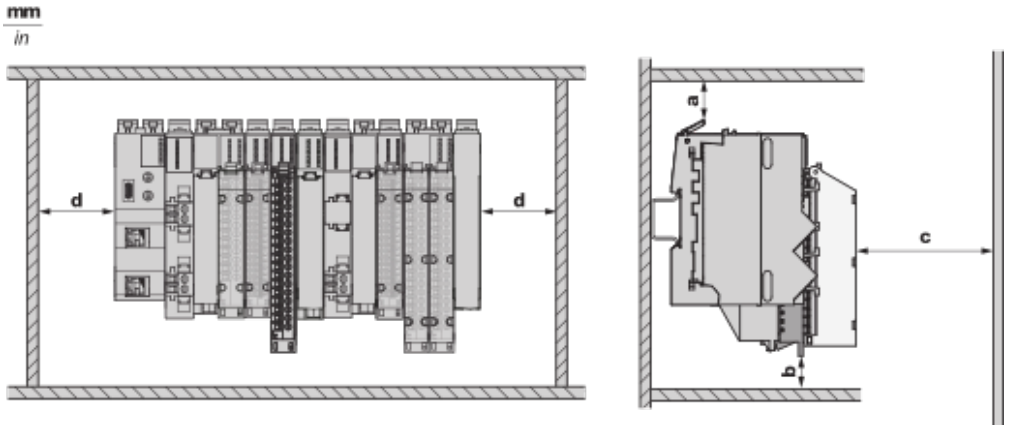
Dimensions Drawings

**Dimensions**



Mounting and Clearance

## Minimum clearances

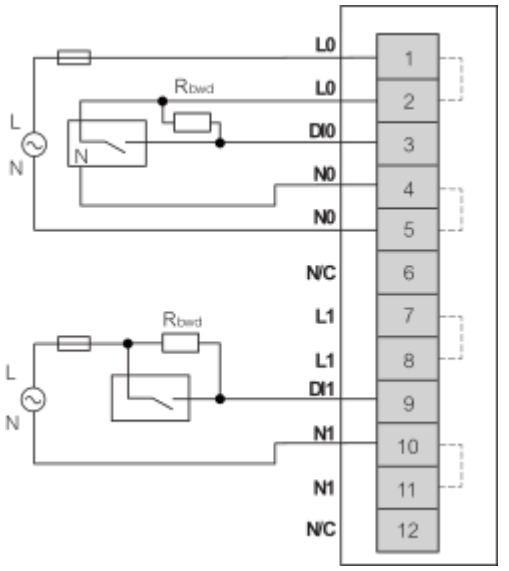



**a :** 50 mm (1.97 in) **b :** Without EMC kit: 25 mm (0.98 in), with EMC 55 kit: 55 mm (2.16 in) **c :** 80 mm (3.15 in ) **d :** 25 mm (0.98 in)

Connections and Schema

## Wiring

### 2-wire and 3-wire connection




### 1-wire and 2-wire connection

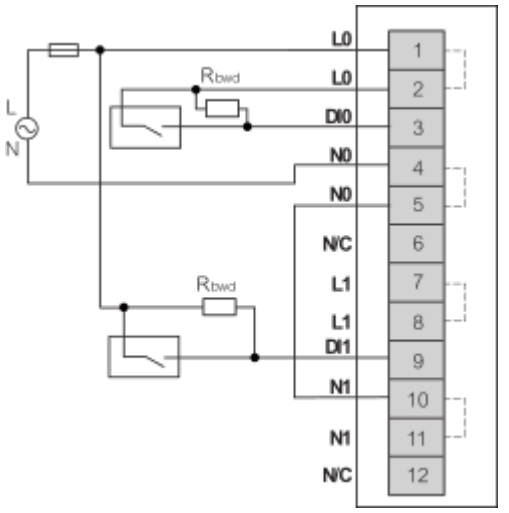
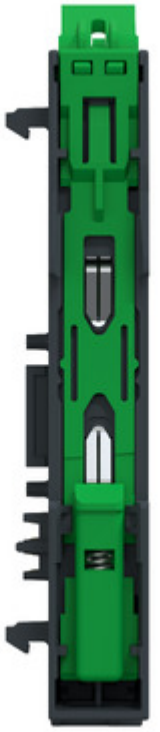


Image of product / Alternate images

**Alternative**

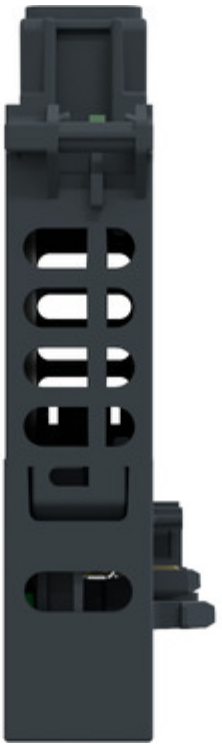





PV:XX
RL:XX
SV:X.X.X.XX
SN:PPYYWWLLLNNNNN
Made in: INDONESIA

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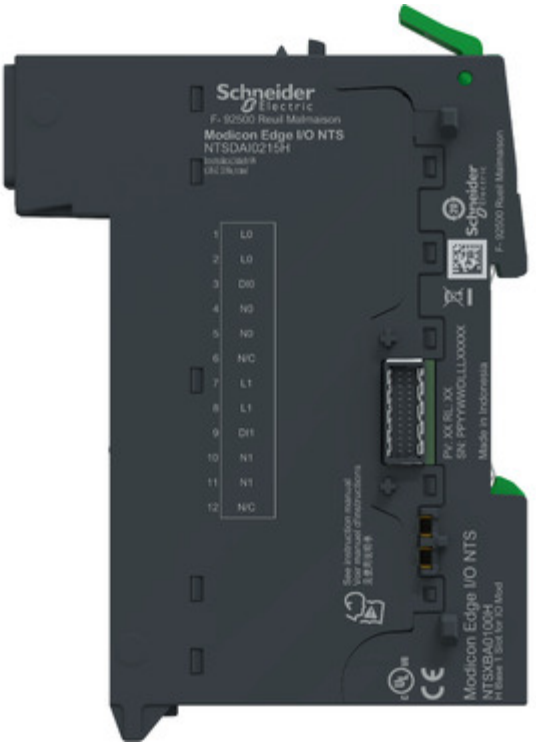


Image of product in real life situation

