

Product datasheet

Specifications



Discrete Output Module + Base, 16 Out, 24V DC, 500mA, Source, Protected, 1 Wire, Modicon Edge I/O NTS

NTSDDO1602K

EAN Code: 3606486877715

Main

| | |
|---------------------------|---|
| Range of product | Modicon Edge I/O NTS |
| Product or component type | Discrete output module kit |
| Kit composition | NTSDDO1602 module NTSXBA0200H base |
| Mandatory accessory | NTSXTB18_0_H terminal block |
| Product compatibility | NTSN..... |
| Range compatibility | Logic/motion controller - Modicon M262 Modicon M580 Third party |
| Device application | Industrial application |
| Discrete output number | 16 |
| Group of output channels | 1 group |
| Discrete output logic | Positive logic (source) |
| Discrete output voltage | 24 V DC |
| Operating mode | Synchronous/Isochronous |

Complementary

| | |
|---------------------------|--|
| Discrete output number | 16 transistor |
| Output wiring mode | 1 wire |
| Discrete output current | 500 mA per channel 8 A per module |
| Discrete output frequency | 1 kHz for resistive load 0.5/LP ² Hz for inductive load |
| Response time on output | 90 µs maximum (turn on) 110 µs maximum (turn off) |
| Maximum leakage current | 0.001 mA per channel |
| Maximum voltage drop | <0.1 V per channel for DC |
| Maximum tungsten load | <12 W |
| Output protection type | Transient voltage suppression per channel Short circuit protection per channel Overload/thermal protection per channel Reverse polarity protection per module |
| Output diagnostic | External power supply error per channel Short circuit error per channel |
| Power supply type | Bus power from power supply bus (24 Vdc) Field power from power supply field (24 Vdc) |

| | |
|--|--|
| Rated operational voltage limits | 20.4...28.8 V DC |
| Typical current consumption | 40.8 mA at 24 V DC on the Bus current 6 mA at 24 V DC on the internal field current minimum 8007.2 mA at 24 V DC on the internal field current maximum |
| Electrical connection | Screw/spring terminal block |
| Power dissipation in W | 2.44 W maximum at 24 V DC |
| Isolation between channels and bus | 1500 V AC |
| Isolation between channels and ground | 1500 V AC |
| Hot swapping fallback | Yes |
| Local signalling | 1 LED (green) for module operating (RUN) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR) |
| Housing colour | Grey |
| Mounting support | Top hat type TH35-7.5 conforming to IEC 60715 Top hat type TH35-15 conforming to IEC 60715 |
| Height | 100 mm |
| Width | 15 mm |
| Depth | 80 mm |
| Net weight | 0.074 kg |

Environment

| | |
|--|---|
| IP degree of protection | IP20 |
| Marking | CE UKCA CULus RCM |
| Product certifications | CE UKCA CULus RCM Merchant Navy - EU RO MR (pending) EAC (pending) ATEX Zone 2 (pending) IECEx zone 2 (pending) CCC Ex zone 2 (pending) |
| Standards | EN/IEC 61131-2 EN 61010-2-201 UL 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0 EN 50155 EN 50121-4 EN 50121-5 |
| Directives | 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive 2014/35/EU |
| Ambient air temperature for operation | -20...60 °C |
| Ambient air temperature for storage | -40...85 °C |
| Relative humidity | 5...95 % without condensation |
| Operating altitude | 0...2000 m without derating 2000...5000 m with derating |
| Pollution degree | 2 |

| | |
|-------------------------------------|---|
| Environmental characteristic | Gas resistant C3 and G2 |
| Vibration resistance | 1 g without accessory 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 | 3.200 cm |
| Package 1 Width | 8.500 cm |
| Package 1 Length | 11.900 cm |
| Package 1 Weight | 102.000 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 | 1.922 kg |



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 | 32 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Carbon footprint of the manufacturing phase [A1 to A3] | 9 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. |

Use Better



Materials and Substances

| | |
|--|--|
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number | 36da5072-249a-4bb2-ac87-86507dce031e |
| REACH Regulation | REACH Declaration |

Use Longer



Lifetime extension

| | |
|--------|----|
| Repair | No |
|--------|----|

Use Again

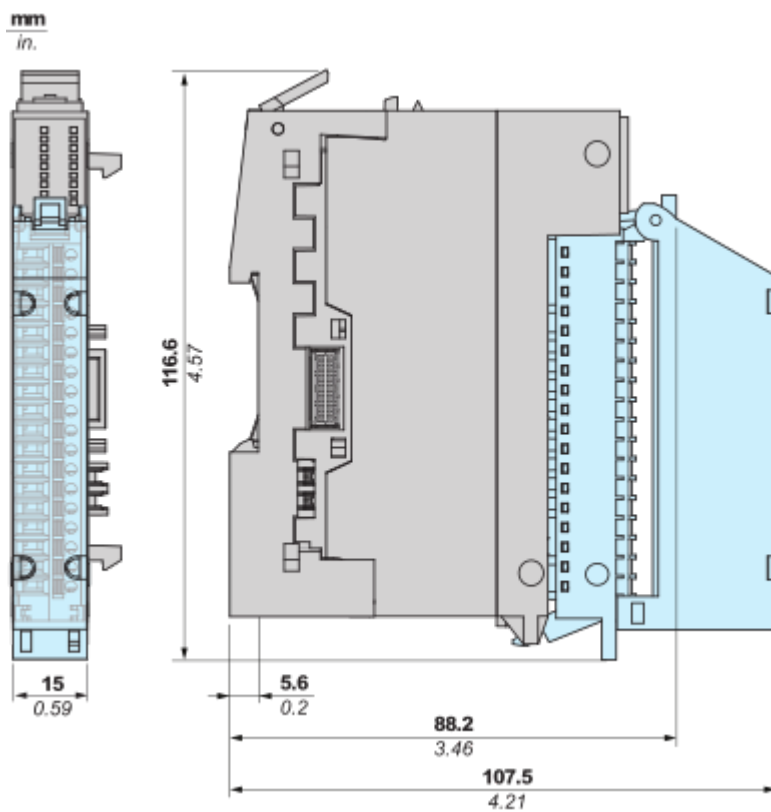


Repack and remanufacture

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

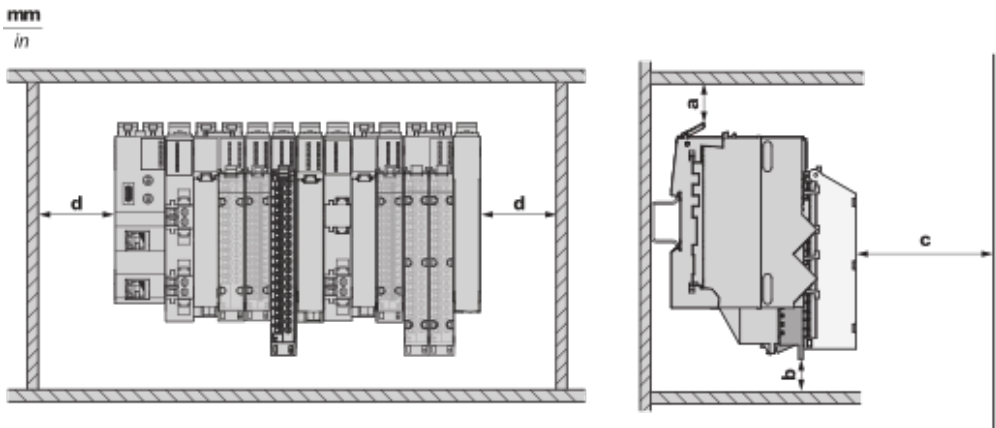
Dimensions Drawings

Dimensions



Mounting and Clearance

Minimum clearances

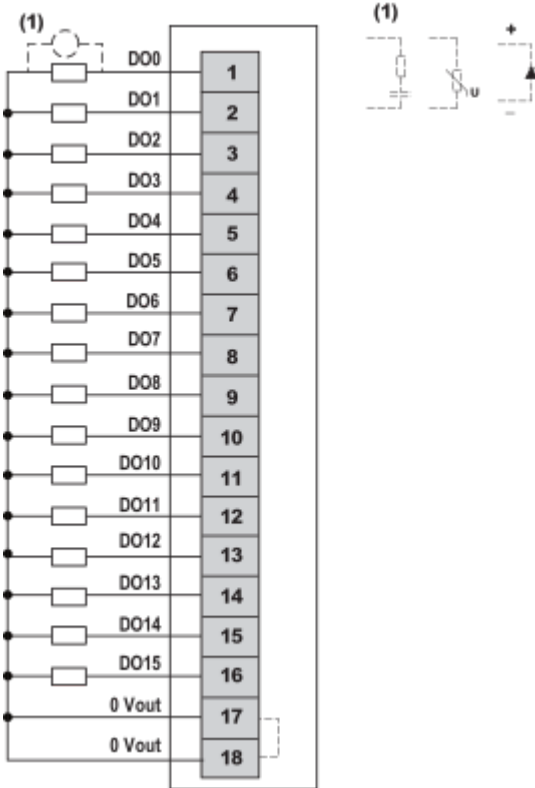


a : 50 mm (1.97 in) b : Without EMC kit: 25 mm (0.98 in), with EMC 55 kit: 55 mm (2.16 in) c : 80 mm (3.15 in) d : 25 mm (0.98 in)

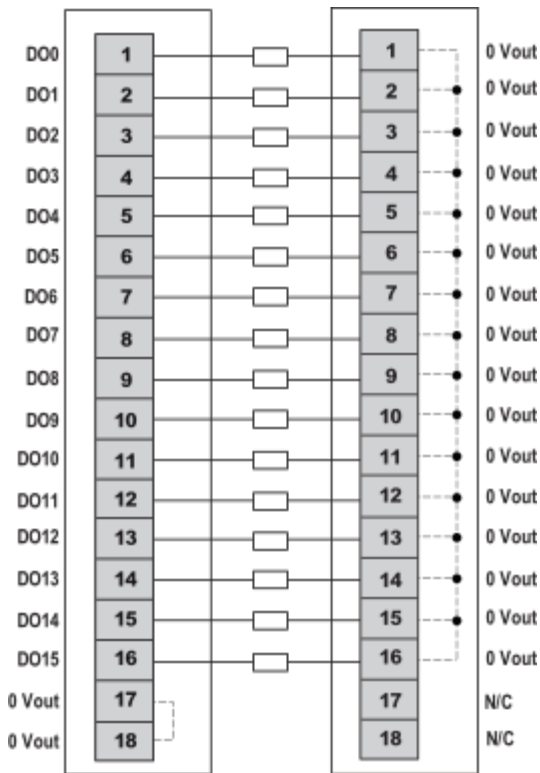
Connections and Schema

Wiring

2-wire connection

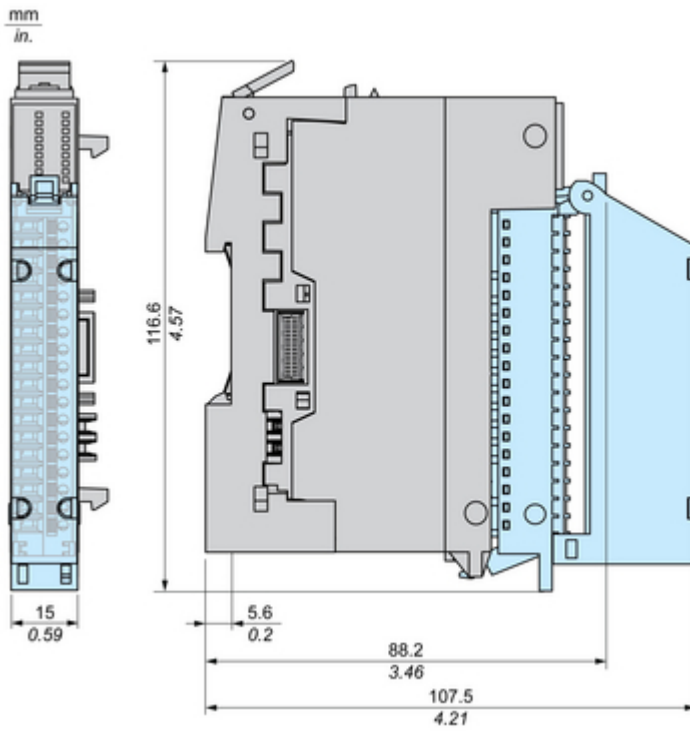


2-wire connection (with common module)



Technical Illustration

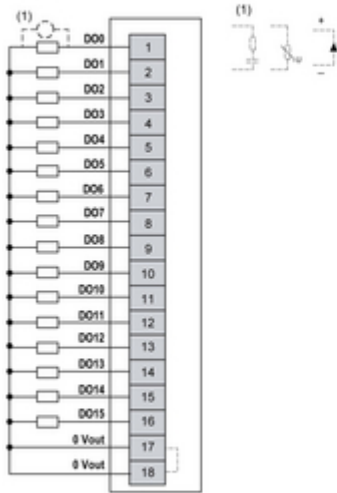
Dimensions



Technical Illustration

Wiring diagram

2-wire connection



2-wire connection (with common module)

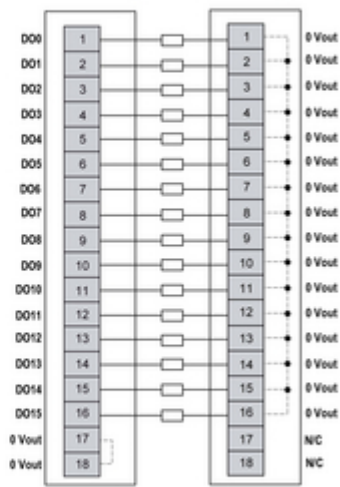
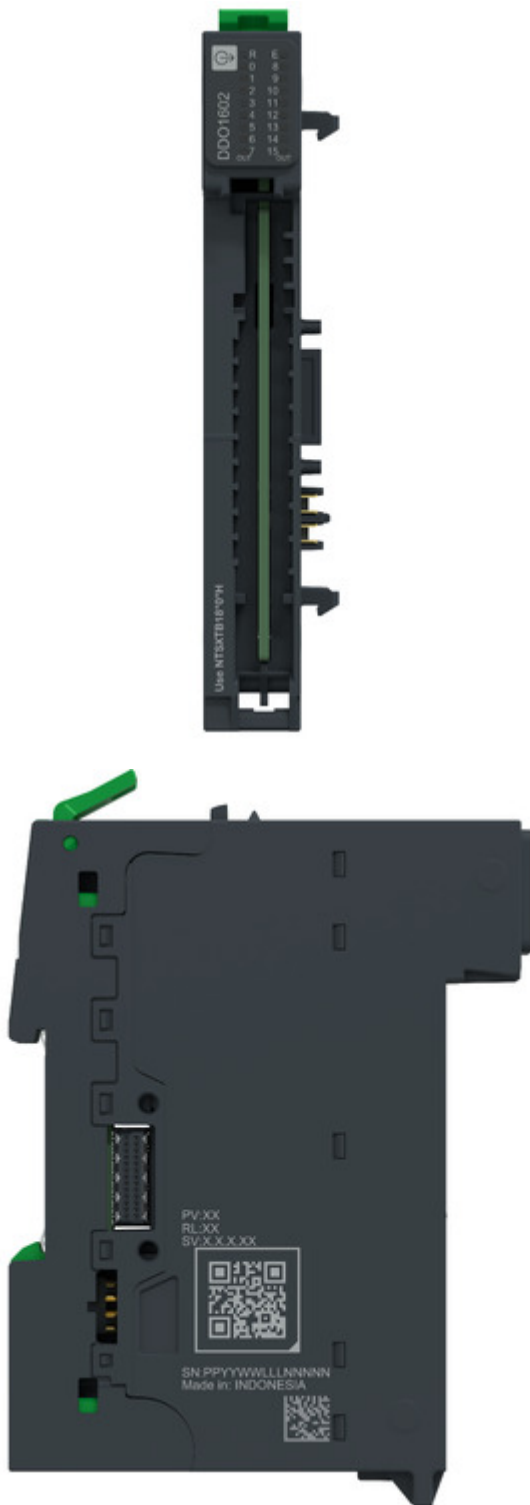


Image of product / Alternate images

Alternative





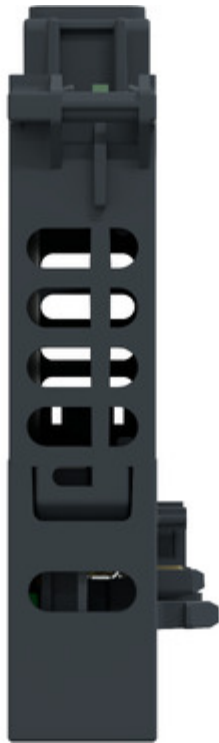
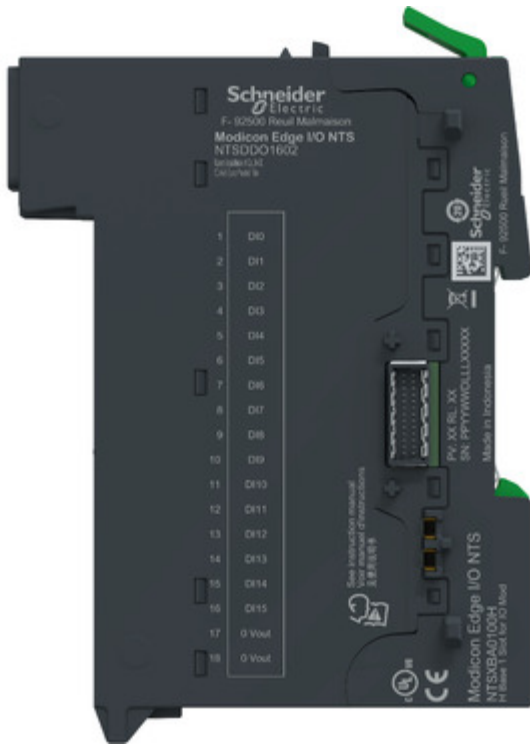


Image of product in real life situation

