Product data sheet

Specifications

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

NTSDAI0215HK

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Edge I/O NTS
Product or Component Type	Discrete input module kit
Kit composition	NTSDAI0215H module NTSXBA0100H base
Mandatory accessory	NTSXTB12_1_H terminal block
Product Compatibility	NTSN.....
Range Compatibility	Logic/motion controller - Modicon M262 Modicon M580 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 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 Broken wire error per channel
Power supply type	Bus power from power supply bus (24 Vdc) 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 24 V DC on the Bus current 0 mA 24 V DC on the internal field current
Electrical Connection	Screw/spring terminal block

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR)
Housing Colour	Grey
Height	3.9 in (100 mm)
Width	0.6 in (15 mm)
Depth	3.1 in (80 mm)
Product Weight	0.161 lb(US) (0.073 kg)

Environment

IP Degree of Protection	IP20
Protective treatment	Conformal coating
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	-40…158 °F (-40…70 °C)
Ambient air temperature for storage	-40…185 °F (-40…85 °C)
Relative humidity	5…95 % without condensation
Operating altitude	0...6561.68 ft (0...2000 m) without derating 2000...5000 m with derating
Pollution degree	2
Environmental characteristic	Gas resistant CX & GX combined Salt spray resistant
Vibration resistance	1 g without accessory 2 g with accessory
Shock resistance	15 g 11 ms with and without accessory)

Ordering and shipping details

Category	US1PC3318214
Discount Schedule	PC33
GTIN	3606486877500
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.181 in (3.000 cm)
Package 1 Width	3.346 in (8.500 cm)
Package 1 Length	4.724 in (12.000 cm)
Package weight(Lbs)	3.492 oz (99.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	16
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	5.906 in (15.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	4.140 lb(US) (1.878 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	**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 Longer

Lifetime extension

Repair	**No**

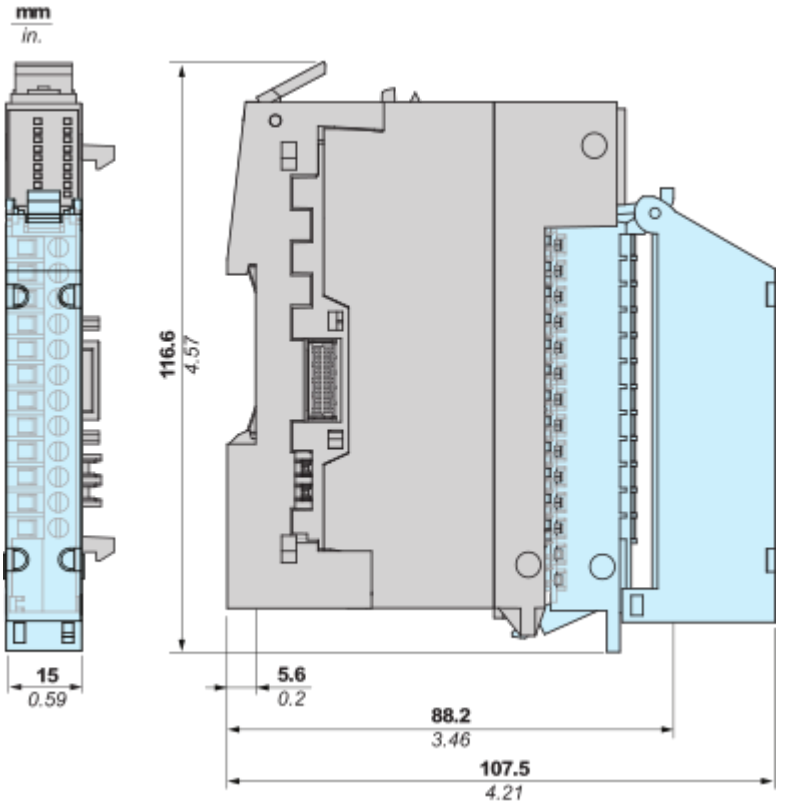
Use Again

Repack and remanufacture

Recyclability potential, in %	**0**
Circularity Profile	End of Life Information
Take-back	**No**

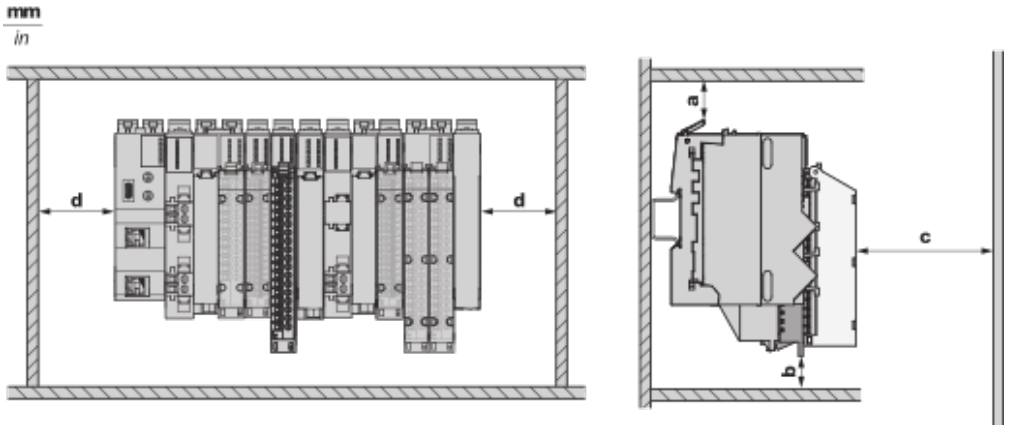
Dimensions Drawings

Dimensions



Mounting and Clearance

Minimum clearances

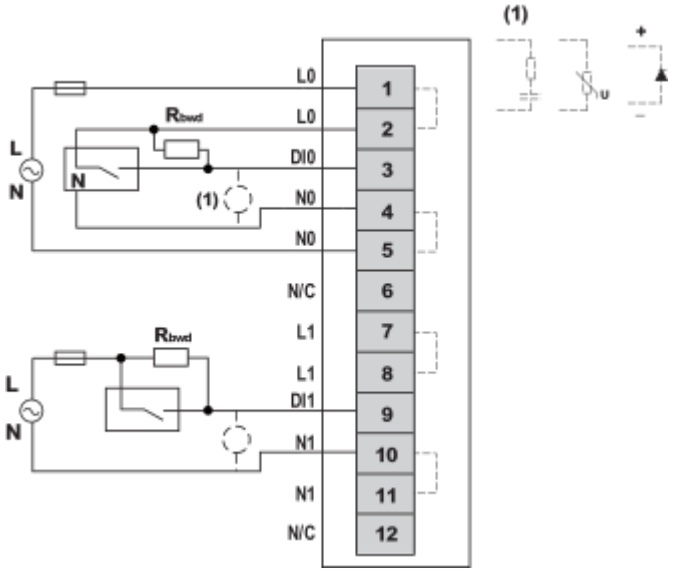


a : 50 mm (1.97 in) **b :** Without EMC kit: 25 mm (0.98 in), with EMC 55 kit: 55 mm (2.16 in) **c :** 80 mm (3.15 in) **d :** 25 mm (0.98 in)

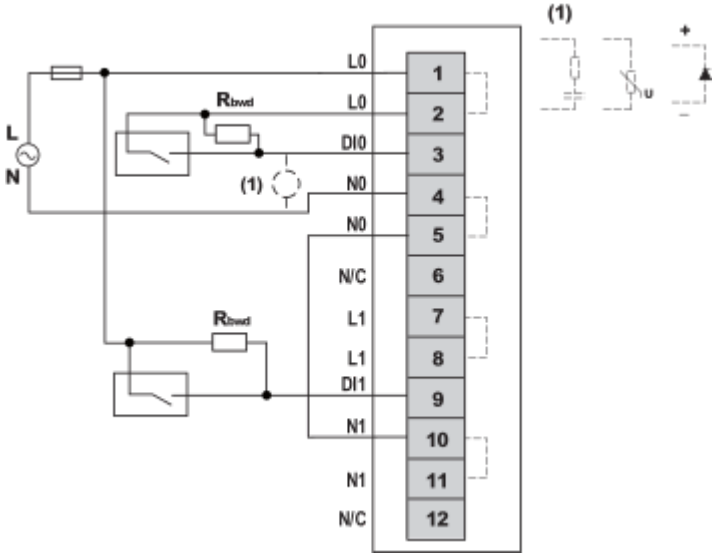
Connections and Schema

Wiring

2-wire and 3-wire connection

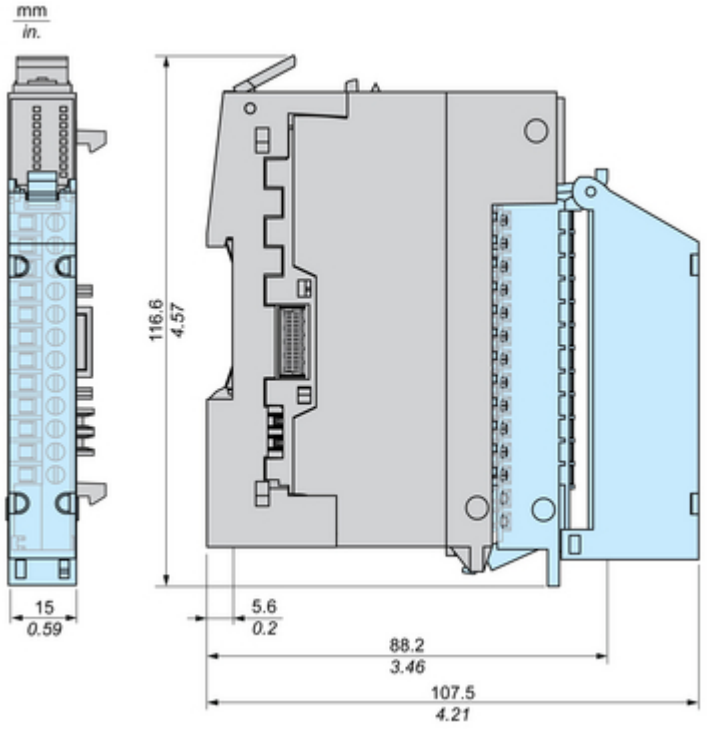


1-wire and 2-wire connection



Technical Illustration

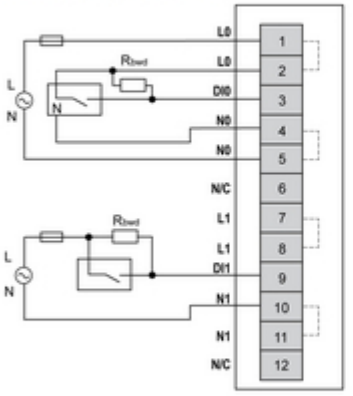
Dimensions



Technical Illustration

Wiring diagram

2-wire and 3-wire connection



1-wire and 2-wire connection

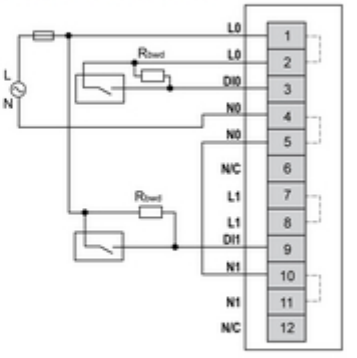
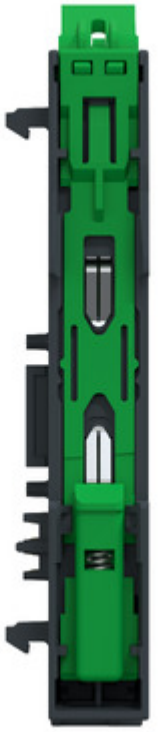
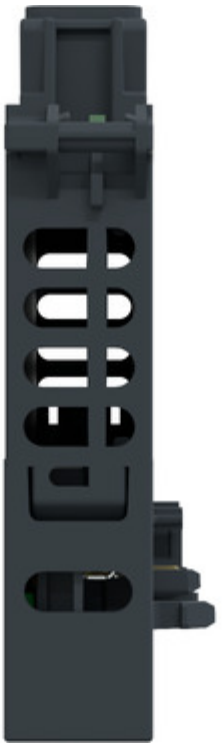


Image of product / Alternate images

Alternative




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



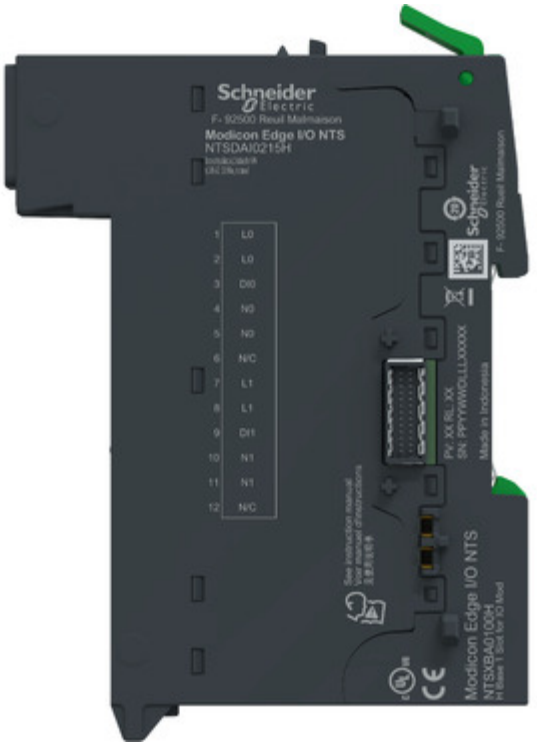

Schneider Electric
F- 92500 Rueil Malmaison
Modicon Edge I/O NTS
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Image of product in real life situation