

Product data sheet

Specifications



Analog Input Module + Base, 8 In, Current, 1/2 wires, Loop Power, Hardened, Modicon Edge I/O NTS

NTSACI0802XHK

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Edge I/O NTS
Product or Component Type	Analog input module kit
Kit composition	NTSACI0802XH 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
Analogue input number	8
Operating Mode	Isochronous/Asynchronous

Complementary

Analogue input type	Current +/- 20 mA Current 0...20 mA Current 4...20 mA
Input wiring mode	1 or 2 wires
Analogue input resolution	15 bits + sign
Permitted overload on inputs	30 V at 50 mA maximum current
Input impedance	250 Ohm + internal current protector 10 Ohm typical
Sampling duration	1.595 ms per module
Input protection type	Over current / miswiring protection per channel for current input
Sensor power supply protection	Over current protection per channel Short circuit protection on loop power supply per channel
Input diagnostic	Underflow error per channel Overflow error per channel Broken wire error per channel Hardware error per channel Calibration error per channel Loop power supply error per channel
LSB value	0.61 µA, +/-20 mA 0.61 µA, 0...20 mA 0.49 µA, 4...20 mA
Type of Cable	Shielded cable
Temperature drift	± 0.004 % FS/ °C
Measurement error	<= 0.1 % FS 25 °C <= 0.3 % FS - 20...60 °C

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

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

Non-linearity	<= 0.01 % FS voltage/current
Common mode rejection	90 dB
Sensor power supply	19.2...30 V DC Loop power
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	36 mA 24 V DC on the Bus current 24 mA 24 V DC on the internal field current minimum 208.8 mA 24 V DC on the internal field current maximum
Power dissipation in W	2.3 W maximum at 24 V DC
Maximum cable distance between devices	Shielded cable <3280.8 ft (1000 m) current input
Isolation between channels and bus	1500 V AC
Isolation between channels and field pwr	No
Isolation between field power and bus	1500 V AC
Hot swapping fallback	Yes
Local signalling	1 LED green module operating (RUN) 1 LED per channel green channel diagnostic 1 LED red module error (ERR)
Housing Colour	Grey
Mounting support	Top hat type TH35-7.5 rail IEC 60715 Top hat type TH35-15 rail IEC 60715
Height	4.8 in (121 mm)
Width	1.2 in (30 mm)
Depth	3.1 in (80 mm)
Product Weight	0.289 lb(US) (0.131 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 EN/IEC 61850-3 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	-4...140 °F (-20...60 °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) 2000...5000 m with derating
Pollution degree	2
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	3606486877296
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.654 in (4.200 cm)
Package 1 Width	5.512 in (14.000 cm)
Package 1 Length	3.346 in (8.500 cm)
Package weight(Lbs)	5.397 oz (153.000 g)
Unit Type of Package 2	S01
Number of Units in Package 2	8
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	3.329 lb(US) (1.510 kg)

Contractual warranty

Warranty (in months)	18
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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	31 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	10 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	20 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 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
SCIP Number	66dc73d1-d186-4343-b24e-84507e018951
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer



Lifetime extension

Repair	No
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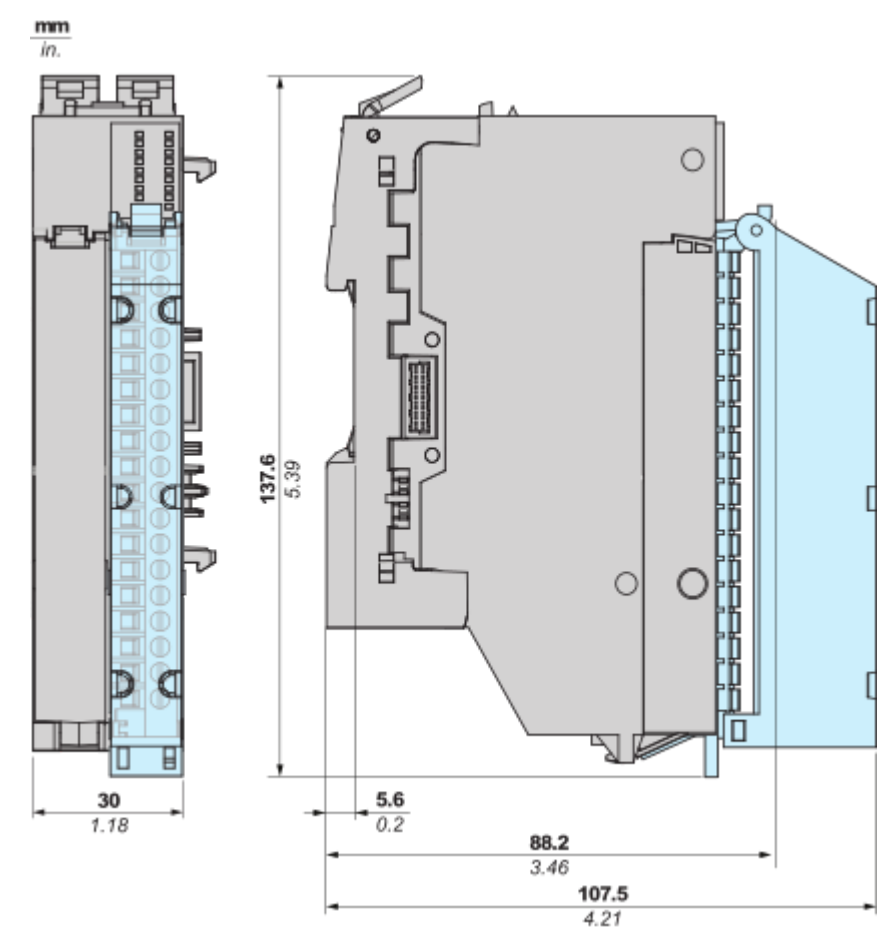
Use Again



Repack and remanufacture

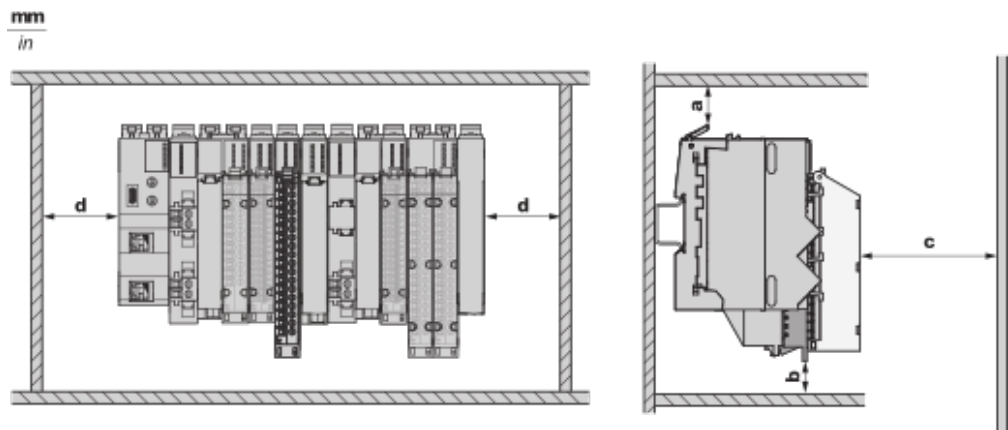
Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No

Dimensions



Mounting and Clearance

Minimum clearances

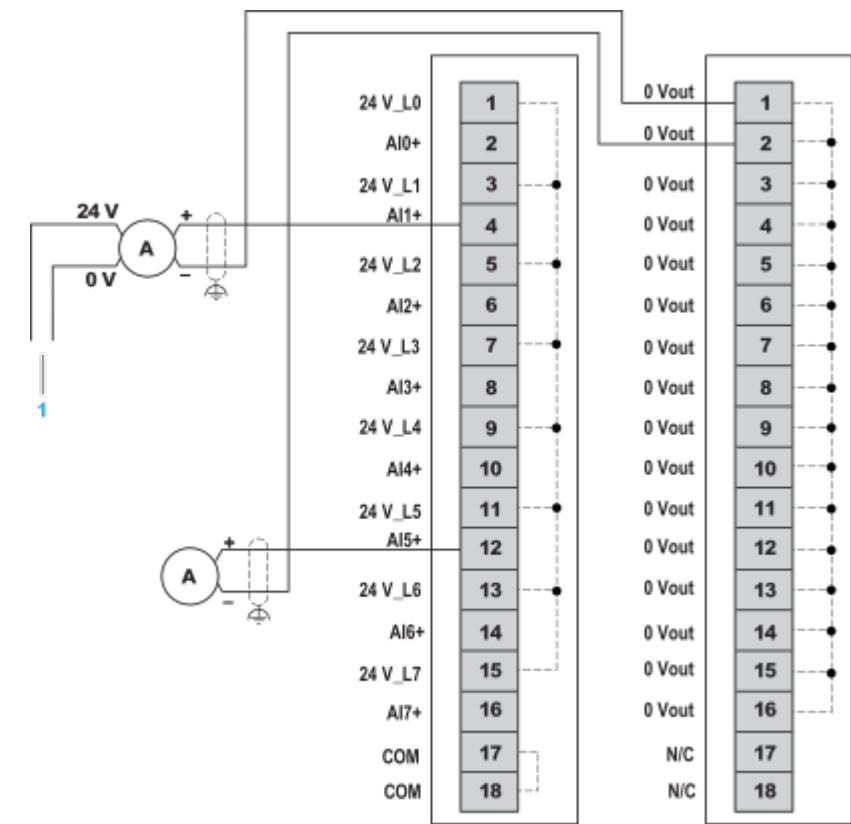


a : 50 mm (1.97 in) **b** : Without EMC kit: 25 mm (0.98 in), with EMC 55 kit: 55 mm (2.16 in) **c** : 80 mm (3.15 in) **d** : 25 mm (0.98 in)

Connections and Schema

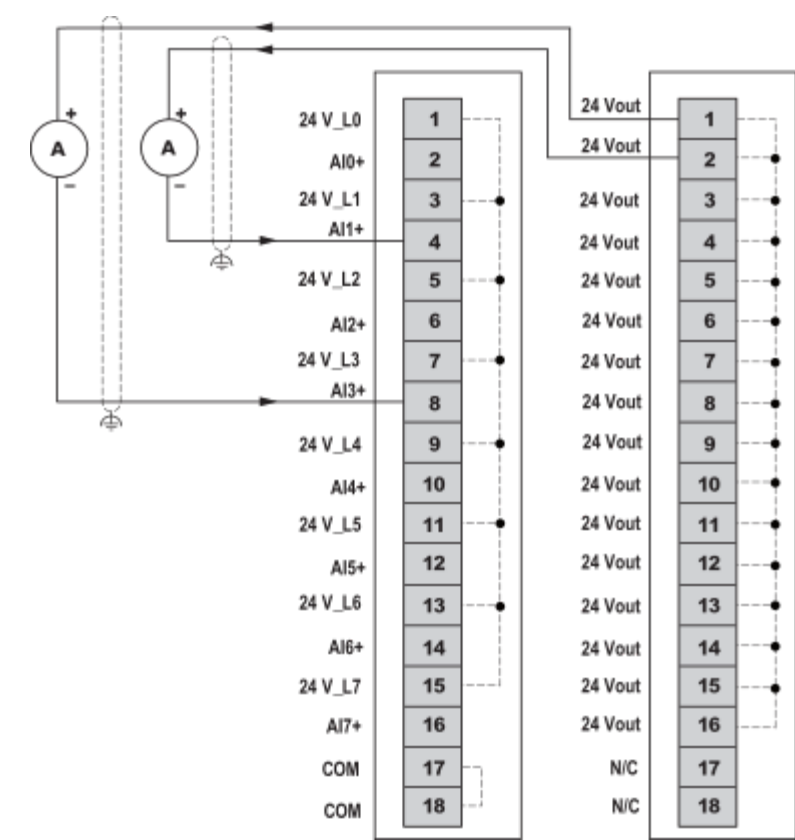
Wiring

1-wire connection (0 V)

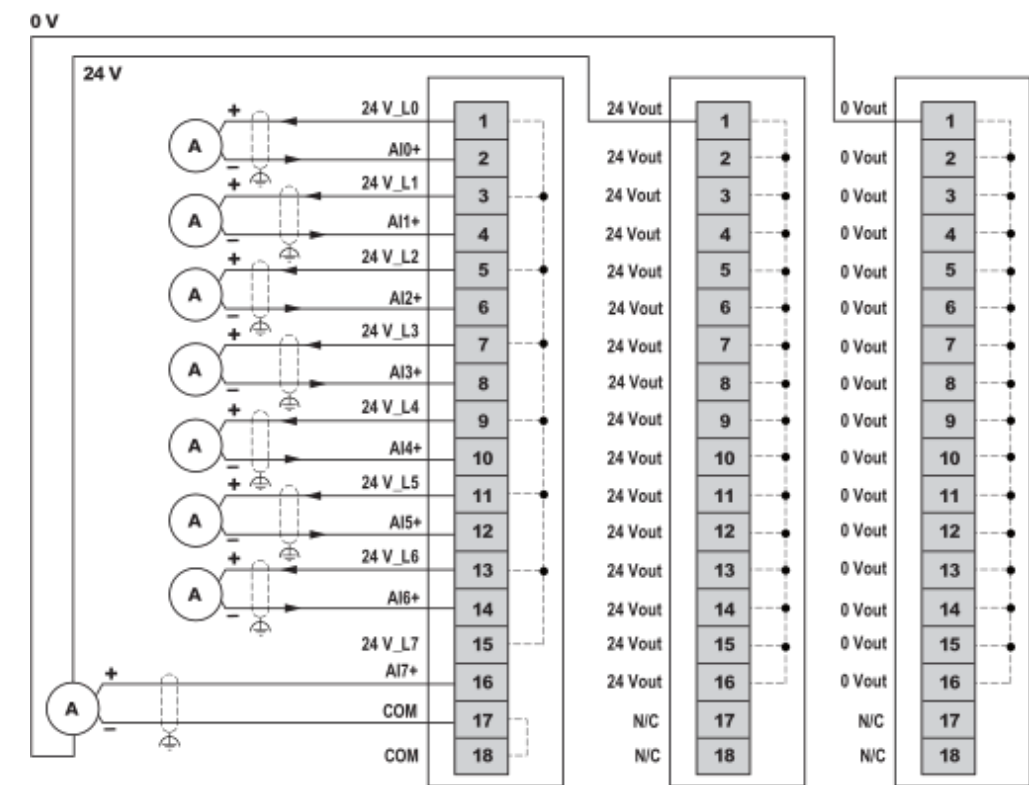


1 : External SELV supply

1-wire connection (24 V)



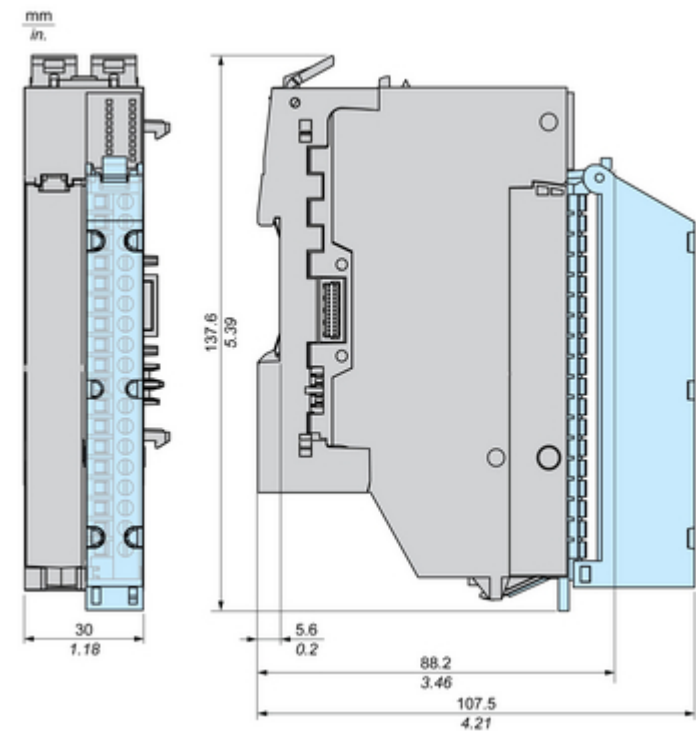
2-wire connection



1 : External SELV supply

Technical Illustration

Dimensions



Technical Illustration

Wiring diagram

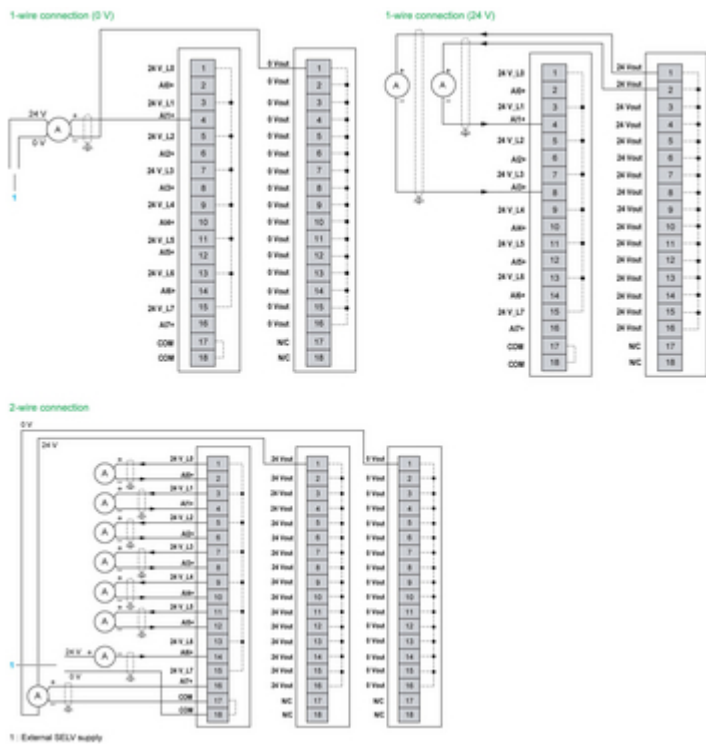


Image of product / Alternate images

Alternative





