Product data sheet
Characteristics

NTSDAI0404HK
Discrete Input Module + Base, 4 In, 100V to 120V AC, Sink, 1/2 Wires, Hardened, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Discrete input module kit
Kit composition	NTSDAI0404H 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	4
Group of input channels	1 group
Discrete input voltage	100...120 V AC
Operating mode	Asynchronous

Complementary

Discrete input number	4 type 1 conforming to IEC 61131-2
Input wiring mode	1 or 2 wires
Discrete input current	6.7 MA at 120 V AC 50 Hz
Voltage state 1 guaranteed	>= 79 V
Voltage state 0 guaranteed	<= 20 V
Current state 1 guaranteed	>= 2 mA
Current state 0 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
Rated operational voltage limits	85...138 V AC 47...63 Hz
Typical current consumption	30 MA at 24 V DC on the Bus current 0 MA at 24 V DC on the internal field current
Electrical connection	Screw/Spring terminal block
Power dissipation in W	1.02 W maximum at 24 V DC
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
Mounting support	Top hat type TH35-7.5 rail conforming to IEC 60715 Top hat type TH35-15 rail conforming to IEC 60715
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 UKCA CULus RCM
Product certifications	CE[RETURN]UKCA[RETURN]CULus[RETURN]RCM[RETURN]Merchant Navy - EU RO MR (pen
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…70 °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 CX & GX combined Salt spray resistant
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	3.000 Cm
Package 1 Width	8.500 Cm
Package 1 Length	12.000 Cm
Package 1 Weight	100.000 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	1.874 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	28 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5.335316531902574
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.10775493005271669
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0001669493889996573
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	22.232195016127704
Carbon footprint of the use phase [B2, B3, B4, B6]	22 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.20837895225269537
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	28
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised