Product data sheet
Characteristics

NTSDDI0802XK
Discrete Input Module + Base, 8 In, 24V DC, Sink, 1/2 Wires, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Discrete input module kit
Kit composition	NTSDDI0802X module NTSXBA0100H 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 input number	8
Group of input channels	1 group
Discrete input voltage	24 V DC
Discrete input logic	Positive logic (sink)
Operating mode	Synchronous/Isochronous

Complementary

Discrete input number	8 type 3 conforming to IEC 61131-2
Input wiring mode	1 or 2 wires
Discrete input current	2.5 MA
Voltage state 1 guaranteed	11...30 V DC
Voltage state 0 guaranteed	< 5 V DC
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1.5 mA
Input impedance	9.6 kOhm
Response time on input	< 90 µs (off to on) < 60 µs (on to off)
Paralleling of inputs	Yes
Input protection type	Over voltage protection Over current protection on sensor supply Reverse polarity protection
Input diagnostic	Power supply error per channel Sensor power supply error per channel
Power supply type	Bus power from power supply bus (24 Vdc) Field power from power supply field (24 Vdc) Optional field power from common distribution module (24 Vdc) Optional field power from external power supply (24 Vdc, shared 0 V with module)
Rated operational voltage limits	20.4...28.8 V DC
Typical current consumption	32.4 MA at 24 V DC on the Bus current 8.4 MA at 24 V DC on the internal field current minimum 210.1 MA at 24 V DC on the internal field current maximum

Power dissipation in W	1.43 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 rail conforming to IEC 60715 Top hat type TH35-15 rail conforming to IEC 60715
Height	121 Mm
Width	15 Mm
Depth	80 Mm
Net weight	0.077 Kg

Environment

IP degree of protection	IP20
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	-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
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	9.000 Cm
Package 1 Length	14.000 Cm
Package 1 Weight	107.000 G
Unit Type of Package 2	S01
Number of Units in Package 2	8
Package 2 Height	15.000 Cm
Package 2 Width	15.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	1.135 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	24 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5.692860402757898
Carbon footprint of the manufacturing phase [A1 to A3]	6 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.11497607889448075
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00017813742825148826
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	18.189977740468116
Carbon footprint of the use phase [B2, B3, B4, B6]	18 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.22234337530945392
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	24
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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised