Product data sheet
Characteristics

NTSDDO1602XK
Discrete Output Module + Base, 16 Out, 24V DC, 500mA, Source, Protected, 1/2 Wires, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Discrete output module kit
Kit composition	NTSDDO01602X module NTSXBA0200H base
Mandatory accessory	2x NTSXTB18_0_XH 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	2 groups of 8 channels
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 or 2 wires
Discrete output current	500 mA per channel 4 A per module
Discrete output frequency	1 kHz for resistive load 0.5/LI² Hz for inductive load
Response time on output	90 µs maximum (turn on) 110 µs maximum (turn off)
Maximum leakage current	0.0001 MA per channel
Maximum voltage drop	<0.1 V per channel for DC
Maximum tungsten load	<12 W
Paralleling of outputs	Yes for redundancy Yes for double current (maximum 2)
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	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 7.2 MA at 24 V DC on the internal field current minimum 4008.6 MA at 24 V DC on the internal field current maximum
Electrical connection	Screw/Spring terminal block
Power dissipation in W	2.47 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	137.6 Mm
Width	30 Mm
Depth	81 Mm
Net weight	0.131 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
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	4 Cm
Package 1 Width	8.3 Cm
Package 1 Length	13.7 Cm
Package 1 Weight	137.60 G
Unit Type of Package 2	S01
Number of Units in Package 2	8
Package 2 Height	15 Cm
Package 2 Width	15 Cm

Package 2 Length	40 Cm
Package 2 Weight	1.8512 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	35 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15.364742534660838
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.19335809818715313
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00031217738390406546
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	19.402642923166
Carbon footprint of the use phase [B2, B3, B4, B6]	19 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3519391642070673
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	35
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	36da5072-249a-4bb2-ac87-86507dce031e
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