Product data sheet
Characteristics

NTSEHC0120HK
High Speed Counter Module + Base, 1 Incremental In, 24V DC, 250kHz, 2 In, 4 Out, Hardened, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Counter module kit
Kit composition	NTSEHC0120H 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
Discrete input number	6
Discrete output number	4
Maximum counting frequency	250 KHz
Counter functions	1 HSC Channel for pulses counting Supports 6 Simple counting functions 1 Single counting function 1 Dual counting function 1 Frequency meter 1 Ratio meter 1 Period meter 1 PWM output

Complementary

Discrete input logic	Sink or source
Discrete input voltage	24 V DC
Discrete input current	2.27 MA at 24 V
Input filtering	0 µs Anti Bounce filter configurable 0.5 µs Anti Bounce filter configurable 1 µs Anti Bounce filter configurable 2 µs Anti Bounce filter configurable 5 µs Anti Bounce filter configurable 10 µs Anti Bounce filter configurable 50 µs Anti Bounce filter configurable 100 µs Anti Bounce filter configurable 250 µs Anti Bounce filter configurable 500 µs Anti Bounce filter configurable 1 ms Anti Bounce filter configurable 2 ms Anti Bounce filter configurable 4 ms Anti Bounce filter configurable 12 ms Anti Bounce filter configurable
Counter configuration	Modicon configuration software
Voltage state 1 guaranteed	11...30 V DC
Voltage state 0 guaranteed	0...5 V DC

Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1.5 mA
Typical current consumption	45 MA at 24 V DC on the Bus current 3 MA at 24 V DC on the internal field current maximum for inputs 500 MA at 24 V DC on the internal field current maximum for outputs
Output voltage	24 V DC
Output voltage limits	28.8 V DC
Nominal output current	0.5 A
Discrete output logic	Source(Push-pull)
Power dissipation in W	2.4 W maximum filament lamp
Protection type	Short-circuit protection on output Input over voltage protection
Isolation between channels	None
Isolation between group	850 V AC
Isolation between channels and bus	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 TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715
Height	100 Mm
Width	30 Mm
Depth	80 Mm
Net weight	0.130 Kg
DC supply voltage	24 V

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/IEC 61010-2-201 UL 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 60079-0, location G EN 50155 EN 50121-4 EN 50121-5
Directives	2014/35/EU - directive basse tension 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
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 m...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	4.500 Cm
Package 1 Width	8.800 Cm
Package 1 Length	12.000 Cm
Package 1 Weight	163.000 G
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	15.000 Cm
Package 2 Width	15.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	2.238 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	35 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15.403545358847248
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.19384641358014126
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00031296577096068403
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]	0.3528279674839352
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
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