Product data sheet
Characteristics

NTSDRC0415K
Relay Output Module + Base, 4 Isolated Out, NO/NC, 5A, 5V to 125V DC, 24V to 240V AC, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Discrete output module kit
Kit composition	NTSDRC0415 module NTSXBA0200H 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 output number	4
Group of output channels	4 groups of 1 channels
Discrete output voltage	24...250 V AC 5...125 V DC
Operating mode	Asynchronous

Complementary

Discrete output number	4 relay outputs (form C with NO/NC)
Output wiring mode	2 wires
Discrete output current	5 A maximum per output at 30 Vdc or 250 Vac (resistive) 0.2 A maximum per output at 125 Vdc (resistive)
Minimum switching current	10 MA 5 V DC
Discrete output frequency	2 Hz for resistive load 0.5 Hz for inductive load 2 Hz for lamp load
Response time on output	< 20 ms activation < 13 ms deactivation
Mechanical durability	10000000 Cycles
[Ith] conventional free air thermal current	2 A per channel
Paralleling of outputs	Yes for logic links Yes for redundant control of load
Output diagnostic	Power supply error per channel
Electrical durability	60000 Cycles 5 A 250 V AC 60000 Cycles 5 A 30 V DC 150000 Cycles 2 A 250 V AC 150000 Cycles 2 A 30 V DC 300000 Cycles 1 A 250 V AC 300000 Cycles 1 A 30 V DC
Power supply type	Bus power from power supply bus (24 Vdc) Field power from power supply field (5...125 Vdc or 24...250 Vac)

Rated operational voltage limits	20.4...28.8 V DC
Typical current consumption	27.6 MA at 24 V DC on the Bus current 1.2 MA at 24 V DC on the internal field current minimum 41.4 MA at 24 V DC on the internal field current maximum
Electrical connection	Screw/Spring terminal block
Power dissipation in W	5.21 W maximum at 24 V DC
Isolation between channels	1780 V AC
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	30 Mm
Depth	81 Mm
Net weight	0.126 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	12.000 Cm
Package 1 Width	4.500 Cm
Package 1 Length	8.500 Cm
Package 1 Weight	158.000 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	2.182 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	35 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	14.66158832667682
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.18450923136876196
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00029789085481746327
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]	0.33583297149291513
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 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
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised