



Main

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|---------------------------|--------------------------------------|
| Range of product | Modicon STB distributed I/O solution |
| Product or component type | Counter kit |
| Number of channels | 1 |

Complementary

| | |
|----------------------------|---|
| Kit composition | STBEHC3020 module STBXBA3000 base STBXTS215018 terminal spring clamp connector |
| Counting input number | 2 |
| Counting frequency | <= 40000 Hz |
| Counter functions | Count events Down counting Frequency meter Loop (modulo) counting Measure time periods Up/down counting |
| Counter configuration | Modicon configuration software |
| Input compatibility | 2/3 wire photo-electric sensor Incremental encoder Mechanical contact With 2-wire/3-wire proximity sensors |
| Input voltage | 24 V |
| Input voltage limits | 19.2...30 V |
| Input voltage type | DC |
| Input current | 6 mA |
| Input logic | Positive |
| Voltage state 0 guaranteed | -3...5 V |
| Voltage state 1 guaranteed | 11...30 V |
| Current state 0 guaranteed | <= 1.5 mA |
| Current state 1 guaranteed | >= 2 mA |
| Filter time | 0 ms digital 40000 Hz counting inputs 0.4 ms digital 1000 Hz counting inputs 1.2 ms digital 400 Hz counting inputs 2.5 µs analog counting inputs 25 µs analog auxiliary input |
| Output voltage | 24 V |
| Output voltage limits | 19.2...30 V |
| Output voltage type | DC |
| Nominal output current | 0.5 A |
| Discrete output logic | Positive or negative configurable |
| Leakage current | <= 0.1 mA at state 0 |
| Voltage drop | <= 3 V at state 1 |
| Load inductance | <= 500 mH 4 Hz |
| Protection type | Overload protection current limiter Overload protection electronic tripping manual or automatic reset Short-circuit protection current limiter |

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| | Short-circuit protection electronic tripping manual or automatic reset |
| Fallback status | Hold last value configured State 0 for output channels by default State 0 or 1 for each channel configured |
| Cold swapping | Yes |
| Hot swapping fallback | Fallback output depending on parameter setting configured mandatory standard network interface module Fallback to 0 basic network interface module Fallback to 0 not configured mandatory standard network interface module |
| Product compatibility | Mounting base STBXBA3000 Power distribution module STBPDT3100/3105 |
| [Us] rated supply voltage | 24 V DC |
| Supply | Power distribution module |
| Current consumption | 60...100 mA 5 V DC logic bus |
| Insulation between channels and bus | 500 V |
| Marking | CE |
| Overvoltage category | II |
| Status LED | 1 LED green EN validation input status (EN) 1 LED green module status (RDY) 1 LED green reset input status (RST) 1 LED per counting input green counting input status (INA, INB) 1 LED per output green output status (OUT1, OUT2) 1 LED red module error (FLT) |
| Height | 28.1 mm |
| Depth | 70 mm |
| Width | 128.3 mm |

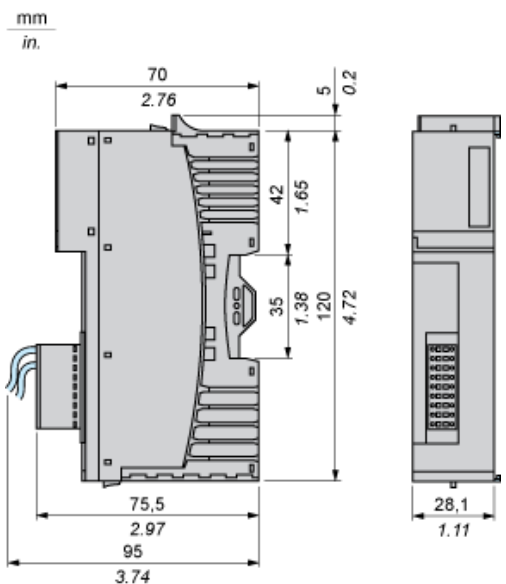
Environment

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|---------------------------------------|--|
| product certifications | CSA FM Class 1 Division 2 UL |
| pollution degree | 2 IEC 60664-1 |
| operating altitude | <= 2000 m |
| IP degree of protection | IP20 EN 61131-2 class 1 |
| ambient air temperature for operation | -25...70 °C without derating |
| ambient air temperature for storage | -40...85 °C |
| relative humidity | 95 % 60 °C without condensation |
| vibration resistance | +/-0.35 mm 10...58 Hz 3 gn 58...150 Hz 35 x 7.5 mm symmetrical DIN rail 5 gn 58...150 Hz 35 x 15 mm symmetrical DIN rail |
| shock resistance | 30 gn 11 ms IEC 88 reference 2-27 |

Offer Sustainability

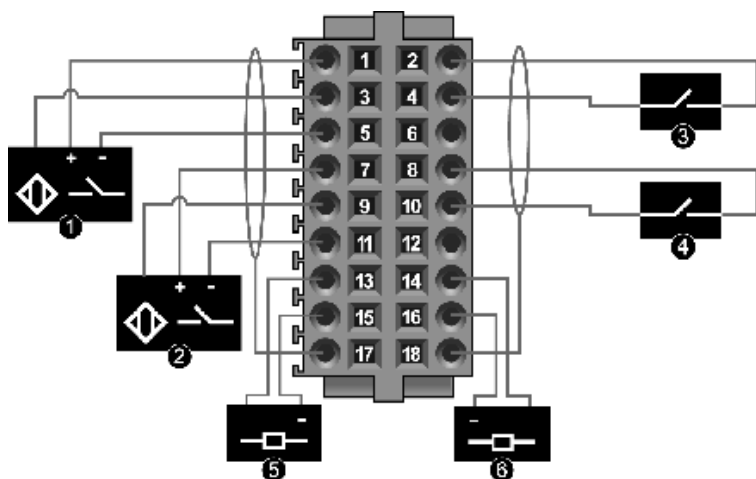
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0833 - Schneider Electric declaration of conformity |
| REACH | Reference contains SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Dimensions



Wiring Diagram

Connection to STBXTS2150KC Removable Spring-Type Terminals



- 1 IN A
- 2 IN B
- 3 EN
- 4 RST
- 5 OUT1
- 6 OUT2

| Pin | Function | Pin | Function |
|-----|---|-----|---|
| 1 | +24 VDC field power (from the PDM) for input IN A | 2 | +24 VDC field power (from the PDM) for the input EN |
| 3 | input IN A | 4 | input EN |
| 5 | field power return for input IN A | 6 | field power return for input EN |
| 7 | +24 VDC field power (from the PDM) for input IN B | 8 | +24 VDC field power (from the PDM) for input RST |
| 9 | input IN B | 10 | input RST |
| 11 | field power return for input IN B | 12 | field power return for input RST |
| 13 | output OUT1 | 14 | output OUT2 |
| 15 | output OUT1 return | 16 | output OUT2 return |
| 17 | shield connection for input IN A and input IN B. | 18 | shield connection for input EN and input RST. |