

Product datasheet

Specifications



basic digital output kit, Modicon STB, 24V DC, 16O, spring clamp connector

STBDDO3705KC

Main

| | |
|------------------------------|--|
| Range Of Product | Modicon STB distributed I/O solution |
| Product Or Component Type | Basic digital output kit |
| Kit Composition | STBXBA3000 base STBXTS2180, 18-terminal spring clamp connector STBDDO3705 module |
| Discrete Output Number | 16 |
| Discrete Output Type | Solid state |
| Discrete Output Voltage | 24 V |
| Discrete Output Voltage Type | DC |

Complementary

| | |
|---|--|
| Discrete Output Current | 500 mA |
| Discrete Output Logic | Positive |
| Output Voltage | 19.2...30 V DC |
| Absolute Maximum Voltage | 35 V 1.3 ms |
| Response Time | 2 ms off-to-on 2 ms on-to-off |
| Cold Swapping | Yes |
| Hot Swapping | No for basic NIMs |
| Protection Type | Power protection integrated fuse on PDM time lag 5 A Reverse polarity protection Short-circuit protection Thermal overload protection |
| Insulation Between Channels And Logic Bus | 1500 V for 1 minute |
| Maximum Leakage Current | 0.4 mA at state 0 30 V |
| Maximum Load Capacitance | 10 µF |
| Maximum Load Inductance | 1000 mH at 4 Hz |
| Reset | Manual reset COM fault |
| Product Compatibility | Power distribution module STBPDT3100/3105 I/O base STBXBA3000 |
| [Us] Rated Supply Voltage | 24 V DC |
| Supply | Power distribution module |
| Current Consumption | 135 mA at 5 V DC for logic bus |
| Marking | CE |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|----------------------|---|
| Overvoltage Category | II |
| Status Led | 1 LED (green) module status (RDY) 1 LED per channel (green) channel status (OUT1 to OUT16) |
| Height | 13.9 mm |
| Depth | 70 mm |
| Width | 128.3 mm |
| Net Weight | 0.086 kg |

Environment

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|---------------------------------------|---|
| Standards | IEC 61131-2 |
| Product Certifications | FM Class 1 Division 2 CSA UL |
| Pollution Degree | 2 conforming to IEC 60664-1 |
| Operating Altitude | <= 2000 m |
| Ip Degree Of Protection | IP20 conforming to IEC 61131-2 class 1 |
| Ambient Air Temperature For Operation | 0...60 °C (without derating) |
| Ambient Air Temperature For Operation | 32...140 °F without derating |
| Ambient Air Temperature For Storage | -40...85 °C without derating |
| Ambient Air Temperature For Storage | -40...185 °F without derating |
| Relative Humidity | 95 % at 60 °C without condensation |
| Vibration Resistance | 3 gn at 58...150 Hz on 35 x 7.5 mm symmetrical DIN rail 5 gn at 58...150 Hz on 35 x 15 mm symmetrical DIN rail +/-0.35 mm at 10...58 Hz |
| Shock Resistance | 30 gn for 11 ms conforming to IEC 88 reference 2-27 |

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 3.8 cm |
| Package 1 Width | 8.1 cm |
| Package 1 Length | 13.1 cm |
| Package 1 Weight | 194 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 20 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 4.412 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 320 |
| Package 3 Height | 75.0 cm |
| Package 3 Width | 60.0 cm |

| | |
|------------------|---------|
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 80 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

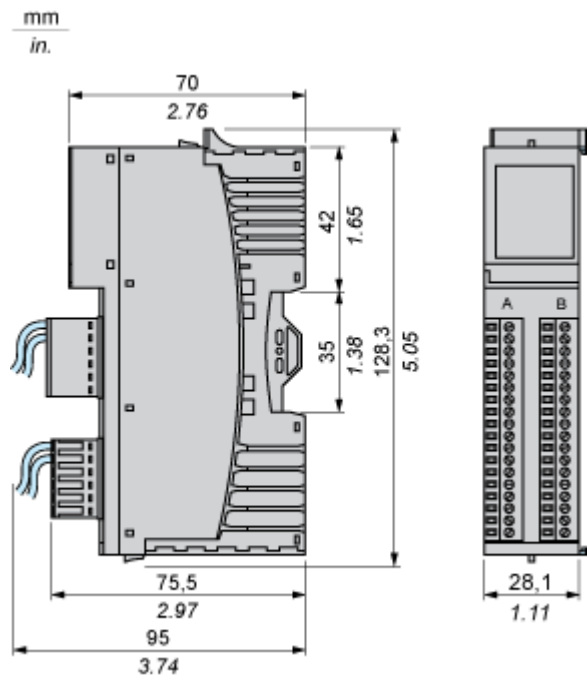
[Guide to assess a product's sustainability >](#)

Well-being performance

| | |
|--|---|
|  Mercury Free | |
|  Rohs Exemption Information | Yes |
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

Dimensions

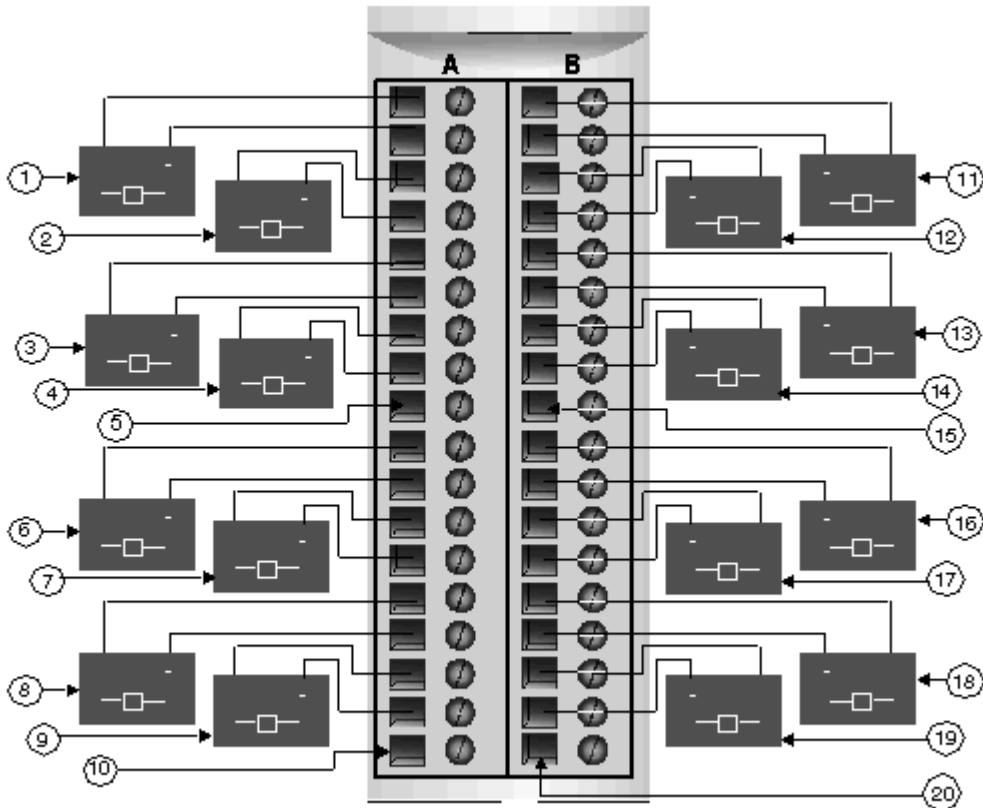


Connections and Schema

Wiring Diagram

Example

16 two-wire actuators



| # | Group 1 | # | Group 2 |
|----|----------------------------------|----|----------------------------------|
| 1 | Channel 1, Connector A, Actuator | 11 | Channel 1, Connector B, Actuator |
| 2 | Channel 2, Connector A, Actuator | 12 | Channel 2, Connector B, Actuator |
| 3 | Channel 3, Connector A, Actuator | 13 | Channel 3, Connector B, Actuator |
| 4 | Channel 4, Connector A, Actuator | 14 | Channel 4, Connector B, Actuator |
| 5 | Pin 9, Connector A (not used) | 15 | Pin 9, Connector B (not used) |
| 6 | Channel 5, Connector A, Actuator | 16 | Channel 5, Connector B, Actuator |
| 7 | Channel 6, Connector A, Actuator | 17 | Channel 6, Connector B, Actuator |
| 8 | Channel 7, Connector A, Actuator | 18 | Channel 7, Connector B, Actuator |
| 9 | Channel 8, Connector A, Actuator | 19 | Channel 8, Connector B, Actuator |
| 10 | Pin 18, Connector A (not used) | 20 | Pin 18, Connector B (not used) |

