# Product data sheet
## Characteristics

# STBDDI3610K
## standard digital input kit STB - 24 V DC - 6 I

### Main

| | |
|---|---|
| Range of Product | Modicon STB distributed I/O solution |
| Product or Component Type | Standard digital input kit |
| Kit composition | STBDDI3610 module<br>STBXTS2100, 6-terminal spring clamp connector<br>STBXTS1100, 6-terminal screw type connector<br>STBXBA1000 base |
| Discrete input number | 6 |
| Discrete input voltage | 24 V |
| Discrete input voltage type | DC |

### Complementary

| | |
|---|---|
| Input voltage limits | 15...30 V at state 1<br>-3...5 V at state 0 |
| Acceptable Input Voltage | 30 V |
| Absolute maximum voltage | 56 V 1.3 ms |
| Discrete input current | 4.5 mA |
| Current state 0 guaranteed | <= 0.5 mA |
| Current state 1 guaranteed | >= 2.5 mA |
| Discrete input logic | Positive or negative |
| Response time | 1.21 ms off-to-on<br>1.74 ms on-to-off |
| Protection type | Power protection integrated fuse on PDM time lag 10 A<br>Input protection resistor-limited<br>Reverse polarity protection |
| Insulation between channels and logic bus | 1500 V for 1 minute |
| Cold swapping | Yes |
| Hot swapping | Yes for standard NIMs |
| Input filtering | 1 ms |
| Product Compatibility | I/O base STBXBA1000<br>Power distribution module STBPDT3100/3105 |
| [Us] rated supply voltage | 24 V DC |
| Supply | Power distribution module |
| Current consumption | 55 mA 5 V DC logic bus |
| Marking | CE |
| Overvoltage category | II |
| Status LED | 1 LED (Green) module status (RDY)<br>1 LED per channel (Green) channel status (IN1 to IN6)<br>1 LED (Red) module error (ERR) |
| Depth | 2.56 in (65.1 mm) |
| Height | 0.72 in (18.4 mm) |
| Width | 4.92 in (125 mm) |
| Net Weight | 0.25 lb(US) (0.112 kg) |

## Environment

| | |
|---|---|
| Standards | EN/IEC 61131-2 type 1 |
| Product Certifications | FM Class 1 Division 2<br>UL<br>CSA |
| Pollution degree | 2 IEC 60664-1 |
| Operating altitude | <= 6561.68 ft (2000 m) |
| IP degree of protection | IP20 conforming to EN 61131-2 class 1 |
| Ambient air temperature for operation | -13…158 °F (-25…70 °C) without derating) |
| Ambient air temperature for operation | 32...140 °F without derating |
| Ambient air temperature for storage | -40…185 °F (-40…85 °C) without derating |
| Ambient air temperature for storage | -40...185 °F without derating |
| Relative humidity | 95 % 140 °F (60 °C) without condensation |
| Vibration resistance | 3 gn 58…150 Hz 35 x 7.5 mm symmetrical DIN rail<br>5 gn 58…150 Hz 35 x 15 mm symmetrical DIN rail<br>+/-0.35 mm 10…58 Hz |
| Shock resistance | 30 gn 11 ms IEC 88 reference 2-27 |

## Ordering and shipping details

| | |
|---|---|
| Category | 18215-ADVANTYS STB I/O |
| Discount Schedule | PC32 |
| GTIN | 3595863949025 |
| Returnability | Yes |
| Country of origin | ID |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.06 in (2.7 cm) |
| Package 1 Width | 3.15 in (8.0 cm) |
| Package 1 Length | 5.12 in (13.0 cm) |
| Package 1 Weight | 4.76 oz (135.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 28 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 9.27 lb(US) (4.206 kg) |

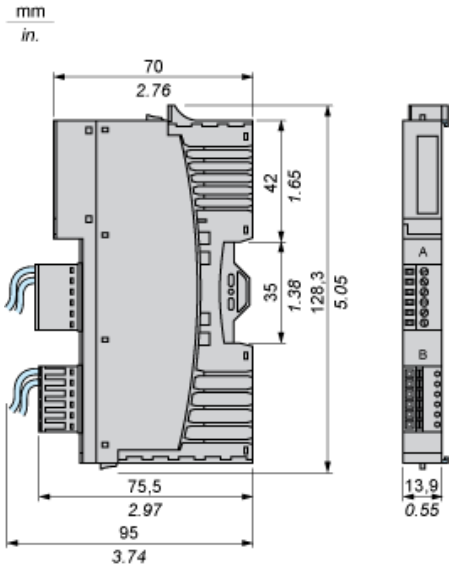
## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

## Contractual warranty

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

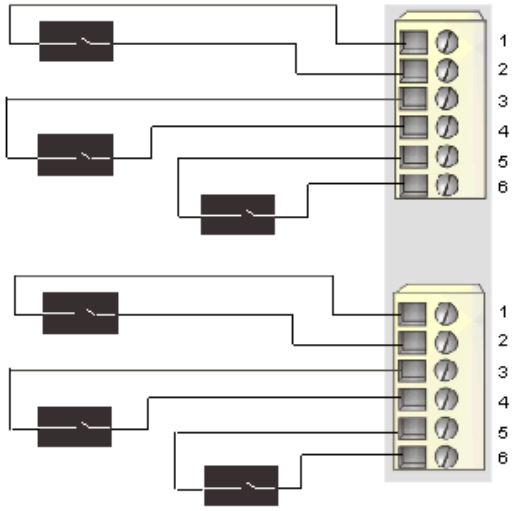
## Dimensions



## Wiring Diagram

### Example

6 two-wire sensors




| Pin | Top Connector | Bottom Connector |
|---|---|---|
| 1 | +24 VDC sensor bus power | +24 VDC sensor bus power |
| 2 | input from sensor 1 | input from sensor 4 |
| 3 | +24 VDC sensor bus power | +24 VDC sensor bus power |
| 4 | input from sensor 2 | input from sensor 5 |
| 5 | +24 VDC sensor bus power | +24 VDC sensor bus power |
| 6 | input from sensor 3 | input from sensor 6 |