

Schneider Service Manual

STBDDI3610K

1. Description

STBDDI3610K

3. Product Information

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

STBXTS2100, 6-terminal spring clamp connector

STBXTS1100, 6-terminal screw type connector

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

-3...5 V at state 0

Permissible voltage 30 V

Absolute maximum voltage 56 V 1.3 ms

Discrete input current 4.5 mA

Current state 0 guaranteed $\leq$ 0.5 mA

Current state 1 guaranteed $\geq$ 2.5 mA

Discrete input logic Positive or negative

Response time 1.21 ms off-to-on

1.74 ms on-to-off

Protection type Power protection integrated fuse on PDM time lag 10 A

Input protection resistor-limited

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

Power distribution module STBPDT3100/3105

[Us] rated supply voltage 24 V DC

Supply Power distribution module

Current consumption 55 mA at 5 V DC for logic bus

Marking CE

Overvoltage category II

Status LED 1 LED (green)module status (RDY):

1 LED per channel (green)channel status (IN1 to IN6):

1 LED (red)module error (ERR):

Depth 65.1 mm

Height 18.4 mm

Width 125 mm

Net weight 0.112 kg

Environment

Standards EN/IEC 61131-2 type 1

Product certifications FM Class 1 Division 2

UL

CSA

Pollution degree 2 conforming to IEC 60664-1

Operating altitude $\leq$ 2000 m

IP degree of protection IP20 conforming to EN 61131-2 class 1

Ambient air temperature for operation -25...70 °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 Weight 135 g
Package 1 Height 2.7 cm
Package 1 width 8 cm
Package 1 Length 13 cm