

Schneider Series Service Manual

170ADM35010

1. Description

The 170ADM35010 from Schneider Electric forms part of the Modicon Momentum series. This discrete I/O base features 16 inputs and 16 outputs, arranged in two groups of eight outputs and one group of 16 inputs, making it versatile for various applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Momentum
Part	Number 170ADM35010
EAN	3595861000261
Weight	1.00 lbs (0.45 kg)
Product	Discrete I/O Base
Number	of Channels 16 Inputs, 16 Outputs
Groups	2 Groups with 8 Outputs and 1 Group with 16 Inputs
Discrete	Input Voltage 24 V DC
Discrete	Output Voltage 24 V DC, Up To 30V DC
Output	Logic Positive
Input	Logic Positive
Solid-State	Switch Outputs Supported
Protective	Treatment TC Treatment
Maximum	Relative Humidity 95% Without Condensation
Peak	Output Current 5 Amps
Operating	Temperature Range 0°C to 60°C
Storage	Temperature Range -40°C to 85°C

3. Product Information

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Technical specifications for 170ADM35010

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Product Line Modicon Momentum

Part Number 170ADM35010

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Output Logic Positive

Input Logic Positive

Solid-State Switch Outputs Supported

Protective Treatment TC Treatment

Maximum Relative Humidity 95% Without Condensation

Peak Output Current 5 Amps

Operating Temperature Range 0°C to 60°C

Storage Temperature Range -40°C to 85°C

Description

Schneider Electric's 170ADM35010 unit is designed as a discrete I/O base with robust functionality. It consists of a total of 16 discrete input channels and 16 discrete output channels, organized into two groups housing eight outputs each, alongside a separate group featuring 16 inputs. This architecture makes it well-suited for varied configurations within industrial applications.

The unit operates at a discrete input voltage of 24 V DC and can output the same voltage, accommodating levels up to 30 V DC. It follows a positive logic scheme for both its inputs and outputs while being compatible with solid-state switch outputs, thus ensuring efficient operation.

To enhance durability, the 170ADM35010 features TC protective treatment, which is crucial in maintaining performance under challenging environments. It can handle a maximum relative humidity of 95%, provided there is no condensation present.

This device can support a peak output current of up to 5 Amps, making it capable of managing substantial loads. In terms of temperature adaptability, it functions effectively within an operational range from 0°C to 60°C and can endure storage conditions between -40°C to 85°C, adding flexibility for various settings and applications.

Range of Product

Modicon Momentum automation platform

Product or Component Type

Discrete solid state I/O base DC

Group of channels

2 groups of 8 outputs

1 group of 16 inputs

Discrete input logic

Positive

Discrete output number

16

Discrete output logic

Positive

Complementary

Input resistance

4 kOhm

Peak output current

5 A

Fault type

Overload on output

Isolation between channels and bus

500 V AC

Terminals description PLC n°1

(L+)PW_POS

(8)IN_DIS#8

(6)IN_DIS#6

(5)IN_DIS#5

TB

(2)IN_DIS#2
(12)IN_DIS#12
(M-)PW_NEG
(15)IN_DIS#15
(13)IN_DIS#13
(10)IN_DIS#10
(3)IN_DIS#3
(9)IN_DIS#9
(7)IN_DIS#7
(1)IN_DIS#1
(11)IN_DIS#11
(14)IN_DIS#14
(16)IN_DIS#16
(4)IN_DIS#4
Terminals description PLC n°2
(10)OUT_DIS#10
(6)OUT_DIS#6
(8)OUT_DIS#8
(1)OUT_DIS#1
(11)OUT_DIS#11
(4)OUT_DIS#4
(5)OUT_DIS#5
(15)OUT_DIS#15
(2L+)PW_POS
TB_1
(7)OUT_DIS#7
(2)OUT_DIS#2
(14)OUT_DIS#14
(9)OUT_DIS#9
(13)OUT_DIS#13
(3)OUT_DIS#3
(1L+)PW_POS
(12)OUT_DIS#12
Local signalling
16 LEDs for channel status
Height
5.6 in (141.5 mm)
Width
4.9 in (125 mm)
Depth
1.9 in (47.5 mm)
Net Weight
0.4 lb(US) (0.2 kg)
Environment
Protective treatment
TC
Marking
CE
Ordering and shipping details
Category
US1PC3118206
Discount Schedule
PC31
GTIN
3595861000261
Returnability
Yes
Country of origin
ID

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.323 in (5.900 cm)

Package 1 Width

7.165 in (18.200 cm)

Package 1 Length

10.236 in (26.000 cm)

Package weight(Lbs)

14.321 oz (406.000 g)