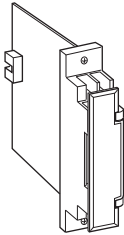# MODEL: 18YC

Rack-mounted DCS Signal Conditioners 18-RACK

CONTROL OUTPUT ISOLATOR

Functions & Features
• Accepting a 4 – 20m A DC input and providing an isolated 4 – 20 mA DC output
• Input from the Standard Rack connector can be monitored at the front terminals
• Opencircuit detection

MODEL: 18YC–AA–R

ORDERING INFORMATION

• Code number: 18YC-AA-R

INPUT

Current
A: 4 – 20 mA DC (Input resistance 250 Ω)

OUTPUT

Current
A: 4 – 20 mA DC (Load resistance 600 Ω max.)

POWER INPUT

DC Power
R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals on the front and connector on the rear; terminal cover provided
Connection
  Input: Connector
  Input monitor: M3.5 screw terminals (torque 0.8 N·m)
  Output: M3.5 screw terminals (torque 0.8 N·m)
  Power input: Supplied from connector
Screw terminal: Nickel-plated steel
Isolation: Input to output to power
Zero adjustment: -5 to +5 % (front)
Span adjustment: 95 to 105 % (front)
Opencircuit detection: input current 0 mA when the output loop is open.

OUTPUT SPECIFICATIONS

The output goes below 0 % when the input is open.

INSTALLATION

Current consumption: Approx. 50 mA
Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Standard Rack 18BXx or 18KBXx
Weight: 150 g (0.33 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.1 %
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Response time: ≤ 0.5 sec. (0 – 90 %)
Line voltage effect: ±0.1 % over voltage range
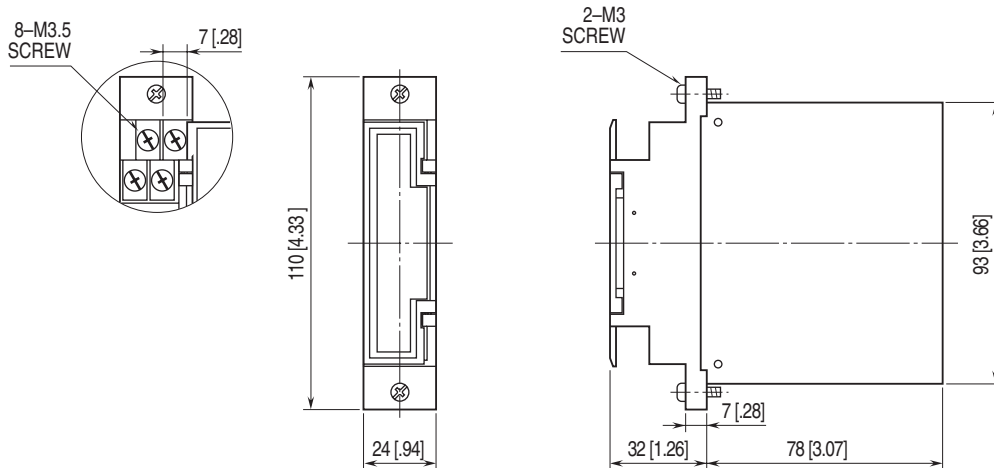**Insulation resistance**: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500 V AC @ 1 minute
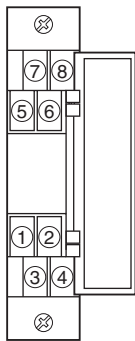(output to input or power)
500 V AC @ 1 minute (input to power)
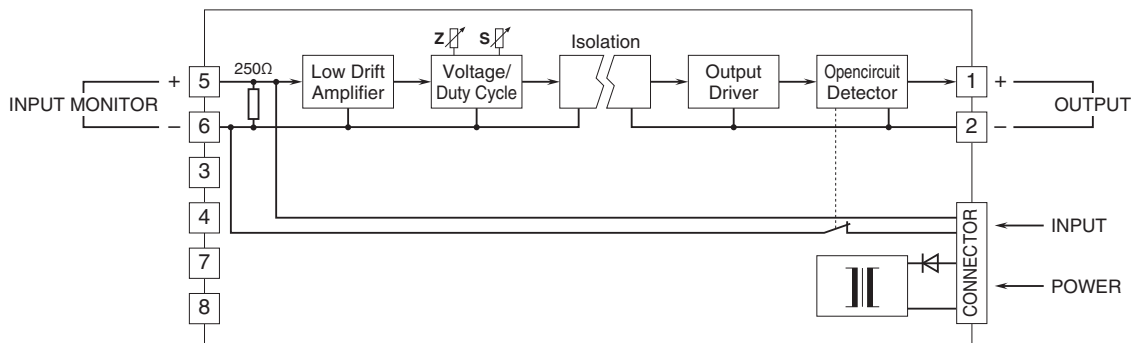1500 V AC @ 1 minute
(input or output or power to ground)

EXTERNAL DIMENSIONS   unit: mm [inch]

TERMINAL ASSIGNMENTS

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

⚠ Specifications are subject to change without notice.

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