

AHC813 Dual Input High / Low Signal Selector

- Suitable for any process input
- Supply voltage 21 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

FUNCTION

High selector: Select and re-transmit Highest signal.
Low selector: Select and re-transmit Lowest signal.

INPUT

DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 100V max
Typical input: 4 - 20mA (Passive)

OUTPUT

DC current or voltage can be specified in the range of:
Current up to 100mA max in Sink configuration (externally powered)
Current up 22mA max Source configuration (Internally powered)
Voltage any from 0.4 to 20V max @ up to 20mA.
Typical output range: 4 - 20mA (Active)

CONTROLS

Zero / Span: 15 turn potentiometer to calibrate Output.

INDICATOR

Amber Led power ON indicator

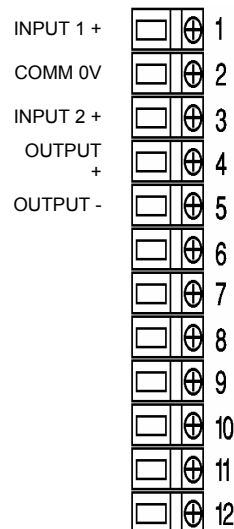
PERFORMANCE

Linearity: < $\pm 0.1\%$
Response time: Typically < 400ms
Accuracy: < $\pm 0.1\%$

PROTECTION

Isolation 1000V RMS. Input/Output/Supply/Earth
Internal Fuse.
Input O/C fail downscale or upscale on request.
Input over range up to typically 300%.
Output limited typically @120%

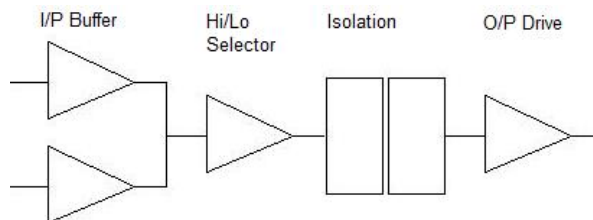
TERMINATION



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Card 3U high 4E wide
Mounting 19" rack / 84E wide (See rack GA for details)
Card weight < 200g

ADD ON / OPTIONS

DI: Common LCD display for local monitoring
H : Hart compatible (Transparent)
J : Input injection jack socket
P: Test point (Trip set point monitoring)
K: RFI protection to IEC801-3
Non standard Power supply ranges available