In order to meet the need for a single reader, Ethernet based interface, Smarteye Corporation introduces its S-netx Control Unit. This next generation Smarteye Reader interface is designed to take full advantage of today's latest control networks and fit seamlessly into your existing plant-floor Ethernet architecture. It can optionally be powered via a 802.3af compliant Power-over-Ethernet (PoE) connection simplifying integration while *dramatically* reducing installation costs. As with all Smarteye products, the S-netx's rugged and compact packaging is designed to withstand the harshest material handling environments.

## *Product Features*

**Supports Standard Smarteye Readers**
- SP1050 Sender/Receiver Series

**Status Indicators**
- Power on, and low power LEDs
- Transmit and receive LEDs for each communication port

**Reader Inputs (1)**
- Optically isolated signals
- Cage clamp terminal connections
- Direct connect or may be located up to 1500' away using Belden 9773 cable or equivalent

**Ethernet Control Port**
- 10BASE-T Ethernet interface RJ45
- Client or server functionality selectable
- Selectable handshake/poll mode
- Link and Activity LEDs

**Network Capability**
- Configurable using standard web browser
- Built-in HTML based history viewer, for label reads, error codes, and diagnostic messages

- Supports DHCP for automatic IP address
- Supports time server for automatic on board chronometer synchronization
- Compatible with SEA-8 and Twin message protocols

**Serial Control Port**
- Selectable RS232/485
- Selectable baud rate up to 57.6K baud
- Selectable odd parity/no parity
- Selectable handshake/poll mode
- Switches for line termination and passive biasing
- Plug-in cage clamp connections

**Auxiliary Serial Port**
- RS232 (up to 50' point-to-point)
- Selectable baud rate up to 57.6K baud
- Selectable odd parity/no parity
- Control port monitoring of labels, errors, diagnostics, and messages in and out
- Configuration of S-netx set-up parameters
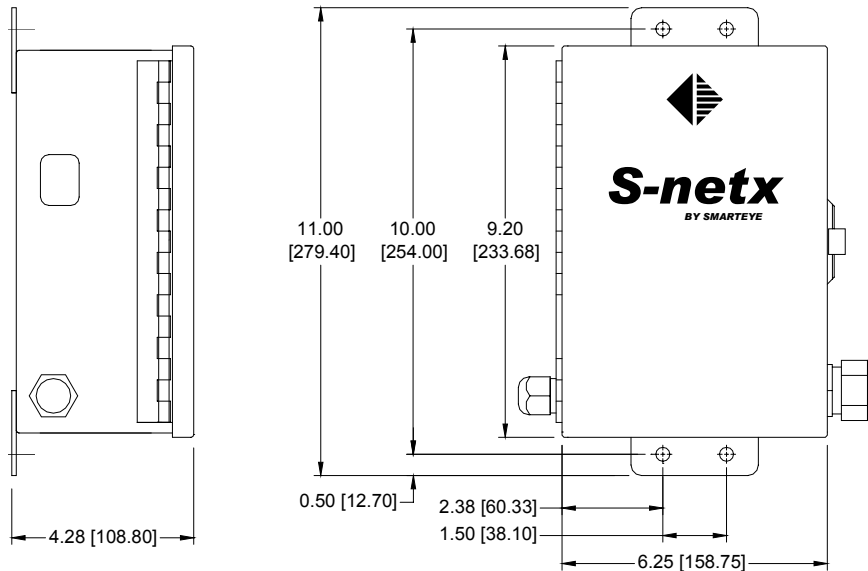- Standard 9 pin D-shell connection

**2637 Bond Street ◆ Rochester Hills, MI ◆ (248) 853-4495 ◆ Fax: (248) 853-8539**
**sales@smarteyecorporation.com ◆ www.smarteyecorporation.com**

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**SMARTEYE** ... *In Control*

## Environmental Specifications
- Operating temperature: 0-60 ˚C
- Humidity: 95% non-condensing

## Power Requirements
- 6W @ 24VDC
- Supports Power Over Ethernet (802.3af compliant)

## Models Available
- SP4002/01 NEMA-12
- SP4002/02 NEMA-12, 802.3af PoE



Dimensions:
11.00 [279.40]
10.00 [254.00]
9.20 [233.68]
0.50 [12.70]
2.38 [60.33]
1.50 [38.10]
6.25 [158.75]
4.28 [108.80]

# *Electrical Interconnections*



**AUXILIARY PORT HOOKUP**

FROM SMARTEYE S-NETX AUXILIARY PORT
2-TRANSMIT
3-RECEIVE
5-SIGNAL GROUND
9-PIN MALE D-SHELL

**TO USER DISPLAY TERMINAL**

BLACK — SIGNAL GROUND
GREEN — RECEIVE
RED — TRANSMIT
WHITE — NC
SHIELD — EARTH GROUND
RS-232 BELDEN 8723

**24V POWER HOOKUP**
P4 - POWER PORT

VIN+  IN+ OUT+
VIN-  IN- OUT-  GROUND

NOTE: FOR MODEL SP4002/01

**RJ45 FEMALE CONNECTOR**
ETHERNET (TIA568B)

PIN 1 - TX+
PIN 2 - TX-
PIN 3 - RX+
PIN 4 -
PIN 5 -
PIN 6 - RX-
PIN 7 -
PIN 8 -
FROM FIELD
1 2 3 4 5 6 7 8

NOTE:
FOR MODEL SP4002/02 - POWER SUPPLIED
PER IEE 802.3af SPECIFICATION (48VDC NOMINAL)

**FOR LOCAL READER HOOKUP**
P3 - READER PORT

+ + + A B C
SHLD SHLD SHLD

BROWN (PHOTOEYE "A" +)
BLUE (PHOTOEYE "A" -)
BROWN (PHOTOEYE "B" +)
BLUE (PHOTOEYE "B" -)
BROWN (PHOTOEYE "C" +)
BLUE (PHOTOEYE "C" -)
BROWN (EMITTER +)
BLUE (EMITTER -)
WHITE (PHOTOEYE "A")
WHITE (PHOTOEYE "B")
WHITE (PHOTOEYE "C")
SENDER/RECEIVER

**FOR REMOTE READER HOOKUP**
P3 - READER PORT

+ + + A B C
SHLD SHLD SHLD

RED ( PHOTOEYE +)
BLACK 1 ( PHOTOEYE "A")
DRAIN
WHITE ( PHOTOEYE -)
BLACK 2 ( PHOTOEYE "B")
DRAIN
GREEN ( NC)
BLACK 3 ( PHOTOEYE "C")
DRAIN
BELDEN 9773 CABLE
OPTIONAL JUNCTION BOX