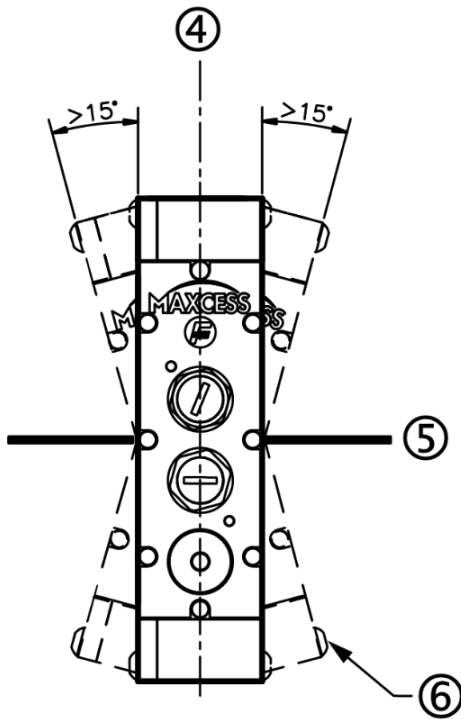


Figure 1. Product dimensions

Sensor model	A Bandwidth	B Bandwidth center	C	D	E
DSE-45-7	66.2 [2.606]	59.75 [2.351]	193.2 [7.606]	n/a	175.2 [6.898]
DSE-45-11	107.0 [4.213]	80.0 [3.149]	234.0 [9.213]	n/a	216 [8.504]
DSE-45-18	178.4 [7.024]	115.69 [4.555]	305.0 [12.024]	105.0 [4.134]	287.4 [11.315]
DSE-45-31	311.0 [12.244]	181.98 [7.164]	438.0 [17.244]	210.1 [8.272]	420.0 [16.535]
DSE-45-52	515.0 [20.276]	283.96 [11.179]	642.0 [25.276]	420.0 [16.353]	624.0 [24.567]

Mounting the sensor



i Remove the plastic dust covers from the connectors that will be in use for your application.

For complete details, refer to the installation drawings and instruction sheets included with your shipment.

- 4 – Center line of sensor should be offset 15 degrees or more of perpendicular to the web pass line.
- 5 – Web pass line
- 6 – Mounting screws can be relocated in the sensor as needed for your installation.

Figure 2. Sensor offset to web pass line (shown without mounting brackets)

Mounting dimensions

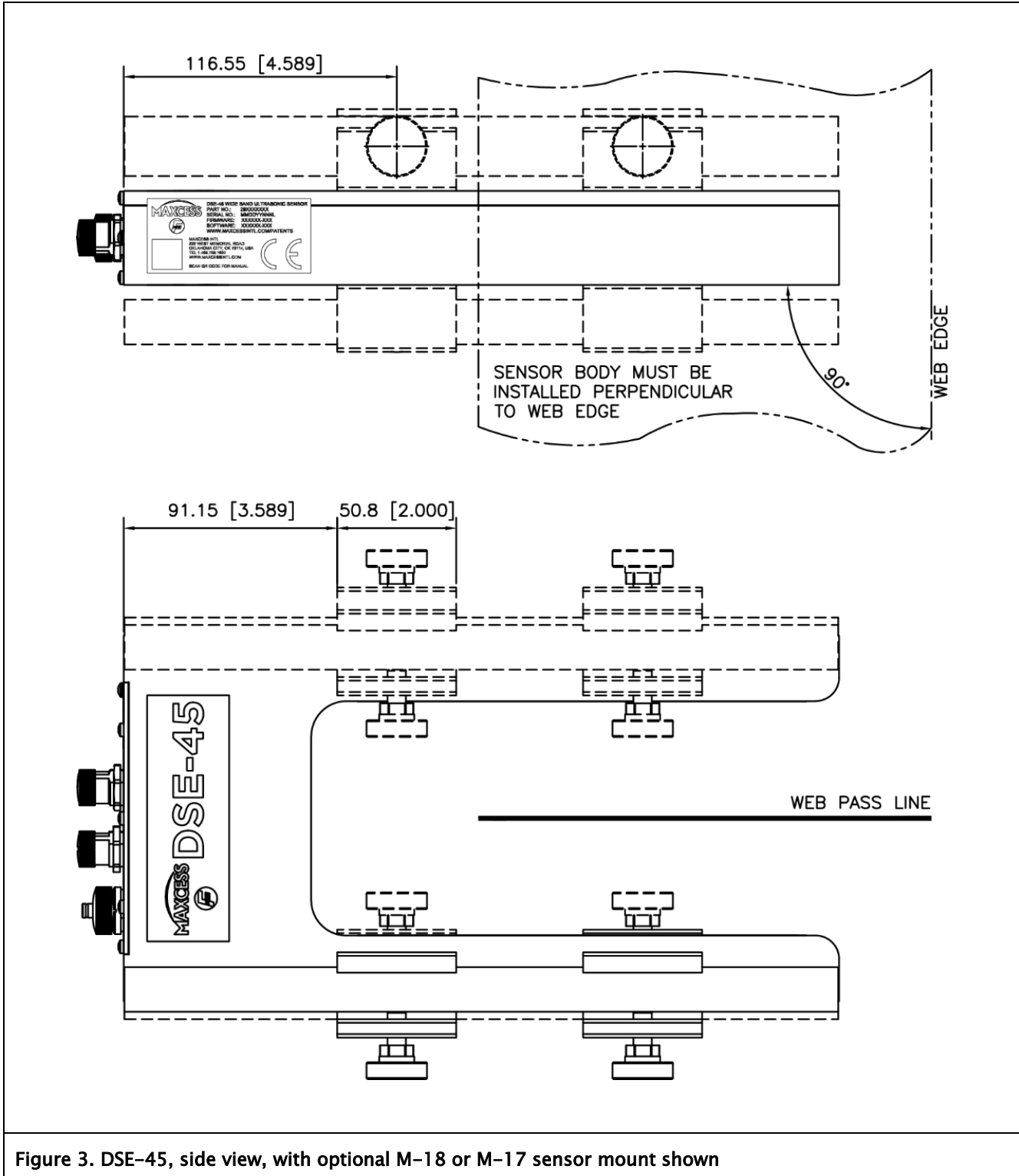


Figure 3. DSE-45, side view, with optional M-18 or M-17 sensor mount shown

Mounting dimensions

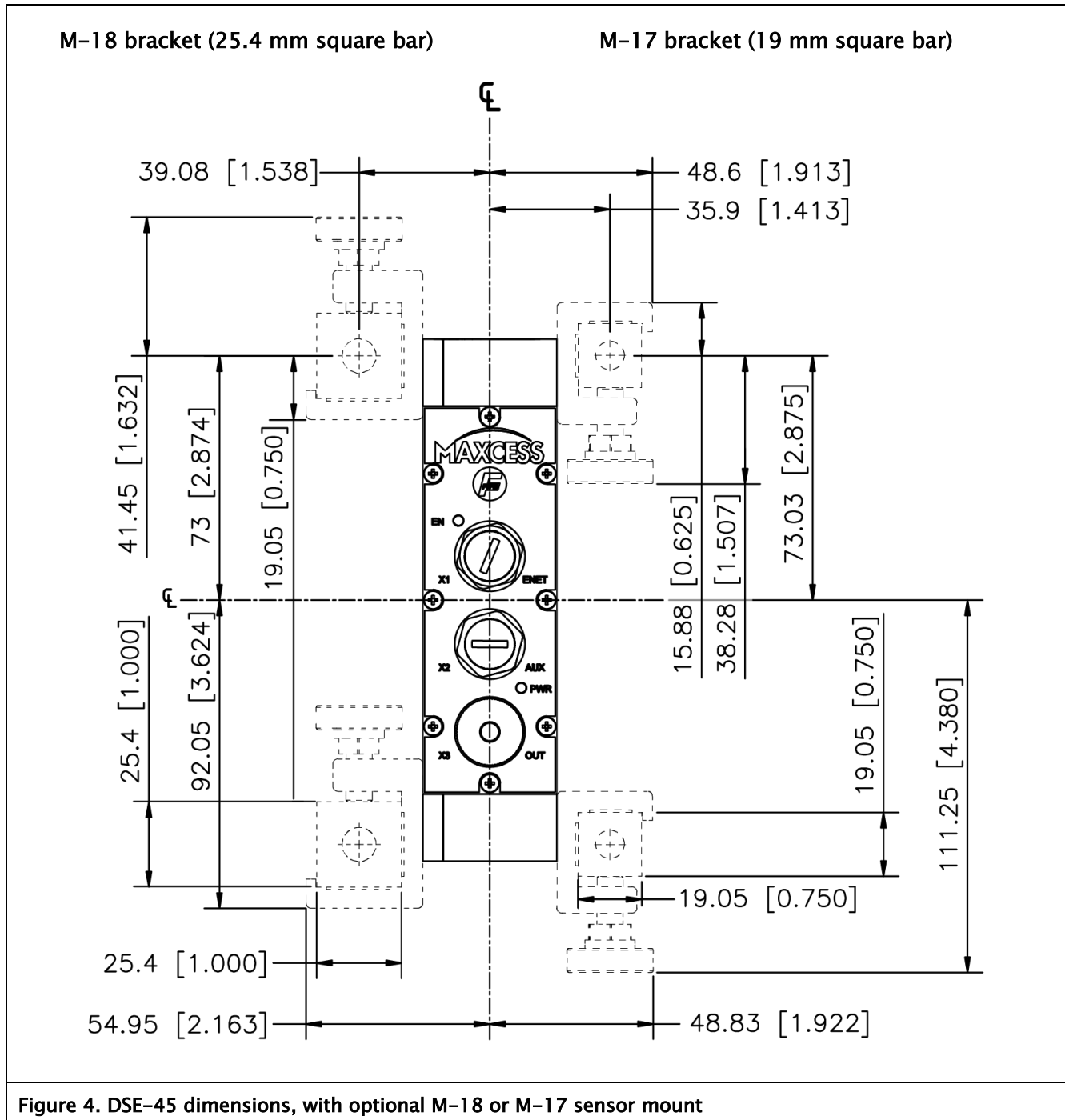


Figure 4. DSE-45 dimensions, with optional M-18 or M-17 sensor mount

Product Specifications

The Fife DSE-45 Wideband Ultrasonic Sensor is ideal for guiding demanding materials, multiple webs and web widths. The sensor provides center or edge guiding of both opaque or clear materials with proportional bandwidths ranging from 66 mm [2.60"] to 515 mm [20.28"] with 16-bit resolution. Output options include analog output for stand-alone monitoring or digital output for multiple edge and web width detection.

Supply Voltage	+10.5 to +51 VDC (X2 Connector)	Linearity	0.37% over entire sensor bandwidth
Maximum Supply Current at 10.5 VDC		Proportional Bandwidth	
DSE-45-7	0.225 A	DSE-45-7	66 mm [2.60"]
DSE-45-11	0.235 A	DSE-45-11	107 mm [4.21"]
DSE-45-18	0.245 A	DSE-45-18	178 mm [7.01"]
DSE-45-31	0.285 A	DSE-45-31	311 mm [12.24"]
DSE-45-52	0.335 A	DSE-45-52	515 mm [20.28"]
Sensor Signal Source	Ultrasonic at 300 KHz	Operating Ambient Temperature Range	0 to 60°C (32 to 140°F)
Output Analog Signal	0 to 10 mA	Operating Humidity Range	15 to 90% relative humidity with no condensation
Sensor configurable to	0 to 20 mA or 4 to 20 mA	Protection Class	IP65
Output Digital Signal	MaxNet over Ethernet RS-485	Certification	CE

General Information

1. All dimensions and specifications are in mm [inches] unless specified otherwise.
2. The DSE-45 sensor requires no scheduled maintenance. When necessary, the surface of the transducers may be cleaned using a clean cloth dampened with water. A mild soap solution may be used to dampen the cloth if needed.



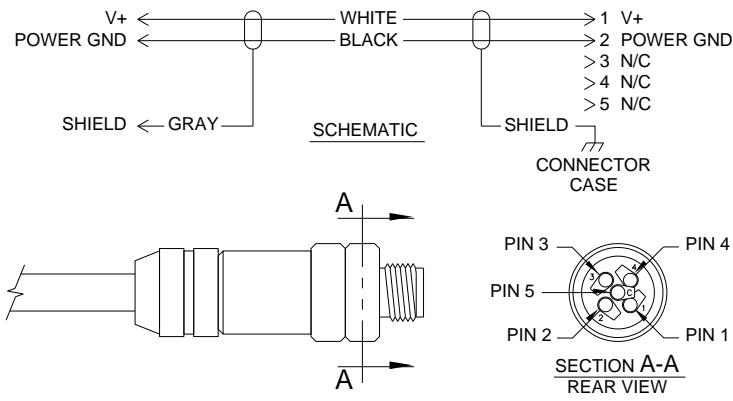
Do NOT use chemical cleaners or solvents when cleaning the transducers. They may cause permanent damage to the sensor transducers.

3. The DSE-45 sensor must be installed perpendicular (90°) to the web as shown. See Figure 2.
4. It is recommended that the DSE-45 sensor be installed at an angle of 15° minimum as shown or greater off of perpendicular (90°) to the web pass line for optimal performance. See Figure 3.
5. It is intended that any external input power be applied to the X2 Connector. Power on the X3 connector is intended to be supplied by a Fife Controller. (Reference Note 7 on Drawing 208004).

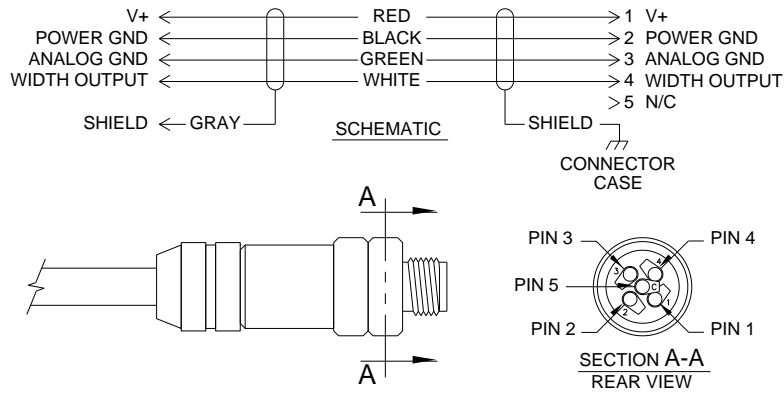


Do NOT apply external power to the X3 connector. Damage to the DSE-45 sensor may occur.

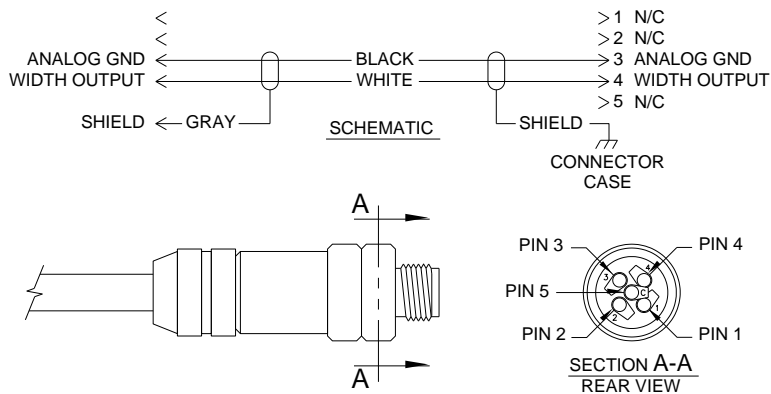
Auxiliary Sensor Cable Connections



SENSOR CABLE P/N 206717-XXX
 Power Only Auxiliary Cable

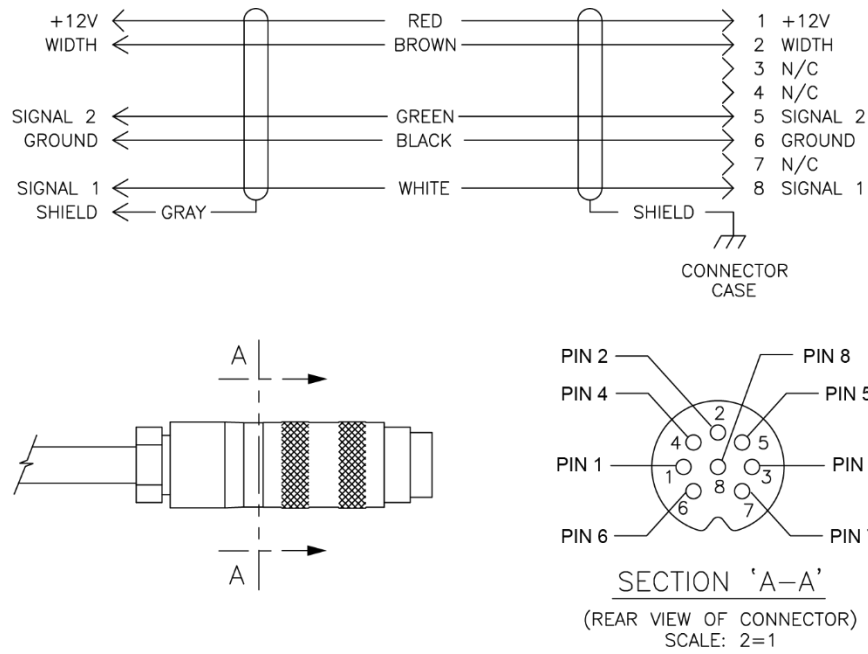


SENSOR CABLE P/N 206720-XXX
 Power and Width Auxiliary Cable



SENSOR CABLE P/N 207664-XXX
 Width Only Auxiliary Cable

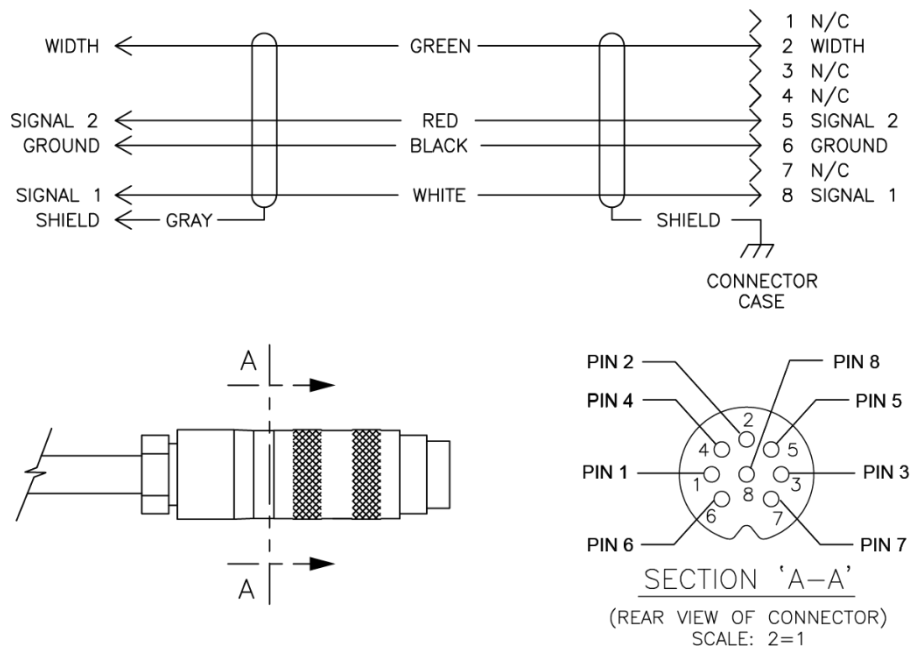
Analog Sensor Cable Connections



SENSOR CABLE P/N 227211-XXX

Three Analog Signals Cable with Power

Power to be supplied by Fife controller

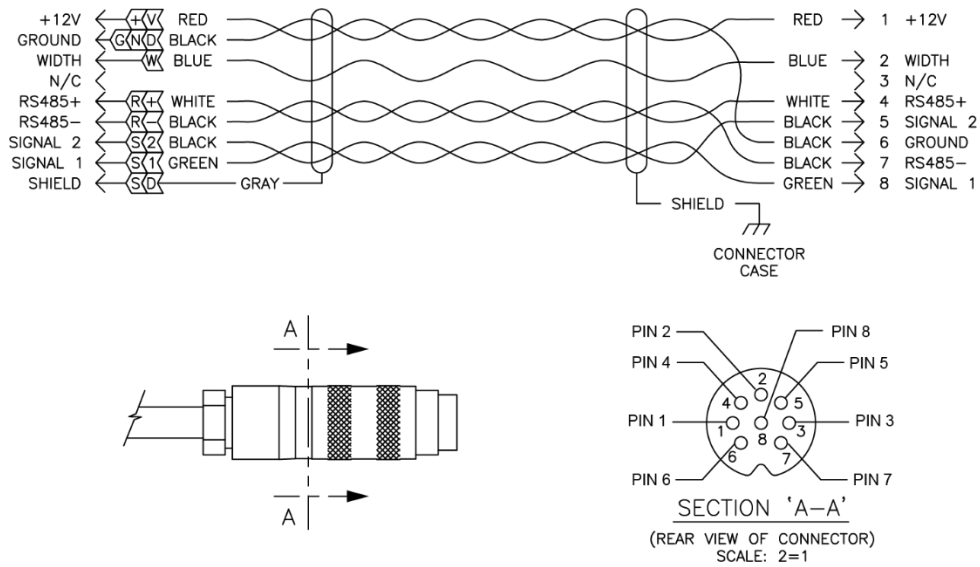


SENSOR CABLE P/N 227212-XXX

Three Analog Signals Cable Without Power

Customer supplied power provided on X2 connector

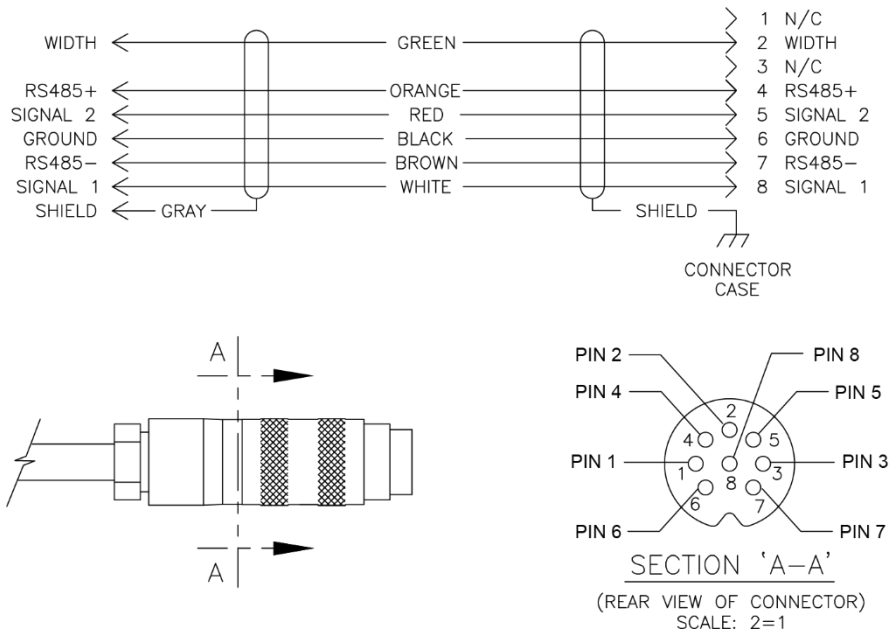
Analog Sensor Cable Connections



SENSOR CABLE P/N 227210-XXX

Three Analog Signals Cable with Power RS-485

Power to be supplied by Fife controller



SENSOR CABLE P/N 227213-XXX

Three Analog Signals Cable Without Power RS-485

Customer supplied power provided on X2 connector



AMERICAS
Tel +1.405.755.1600
Fax +1.405.755.8425
sales@maxcessintl.com
www.maxcessintl.com

EUROPE, MIDDLE EAST
AND AFRICA
Tel +49.6195.7002.0
Fax +49.6195.7002.933
sales@maxcess.eu
www.maxcess.eu

CHINA
Tel +86.756.881.9398
Fax +86.756.881.9393
info@maxcessintl.com.cn
www.maxcessintl.com.cn

INDIA
Tel +91.22.27602633
Fax +91.22.27602634
india@maxcessintl.com
www.maxcess.in

JAPAN
Tel +81.43.421.1622
Fax +81.43.421.2895
japan@maxcessintl.com
www.maxcess.jp

KOREA, TAIWAN,
AND SE ASIA
asia@maxcessintl.com
www.maxcess.asia