

CTI 90 Cantilever Transducer Idler

For narrow web tension measurement



Cantilever Transducer Idler

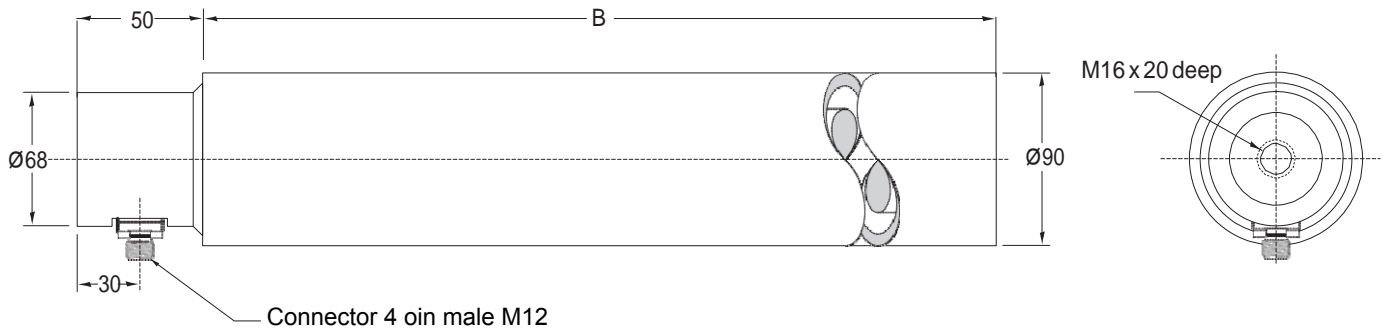
Andantex Cantilevered Full Bridge transducer idlers are designed for accurate, repeatable tension measurement of paper, film, foil and other narrow web materials. Every transducer incorporates four semi-conductor strain sensing gauges - two at each end of the roller. The gauges produce output signals which are proportional to the tension in the web as it passes over the roller. The sum of the signals represents the average tension across the web.

Features

- ▶ Easy to install
- ▶ Includes idler roller
- ▶ Eliminates web steering effect
- ▶ Special roll widths, diameters or roll finishes available

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Dimensions - Standard Mount



CTI 90 Roller Length B (Inches & mm)

5.90 / 7.87 / 9.84 / 11.81 / 13.78" (150) / (200) / (250) / (300) / (350) mm

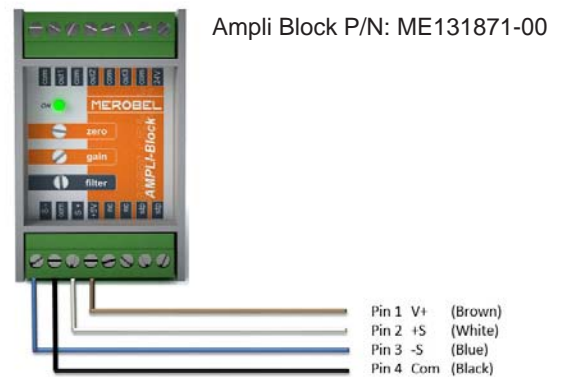
Load Rating (N)

Size90 125 / 250 / 500 / 1000

Part Number:

CTI MWF 125N Ø90 - P/N: CTI 90.125.Length (B)
 CTI MWF 250N Ø90 - P/N: CTI 90.250.Length (B)
 CTI MWF 500N Ø90 - P/N: CTI 90.500.Length (B)
 CTI MWF 1000N Ø90 - P/N: CTI 90.1000.Length (B)

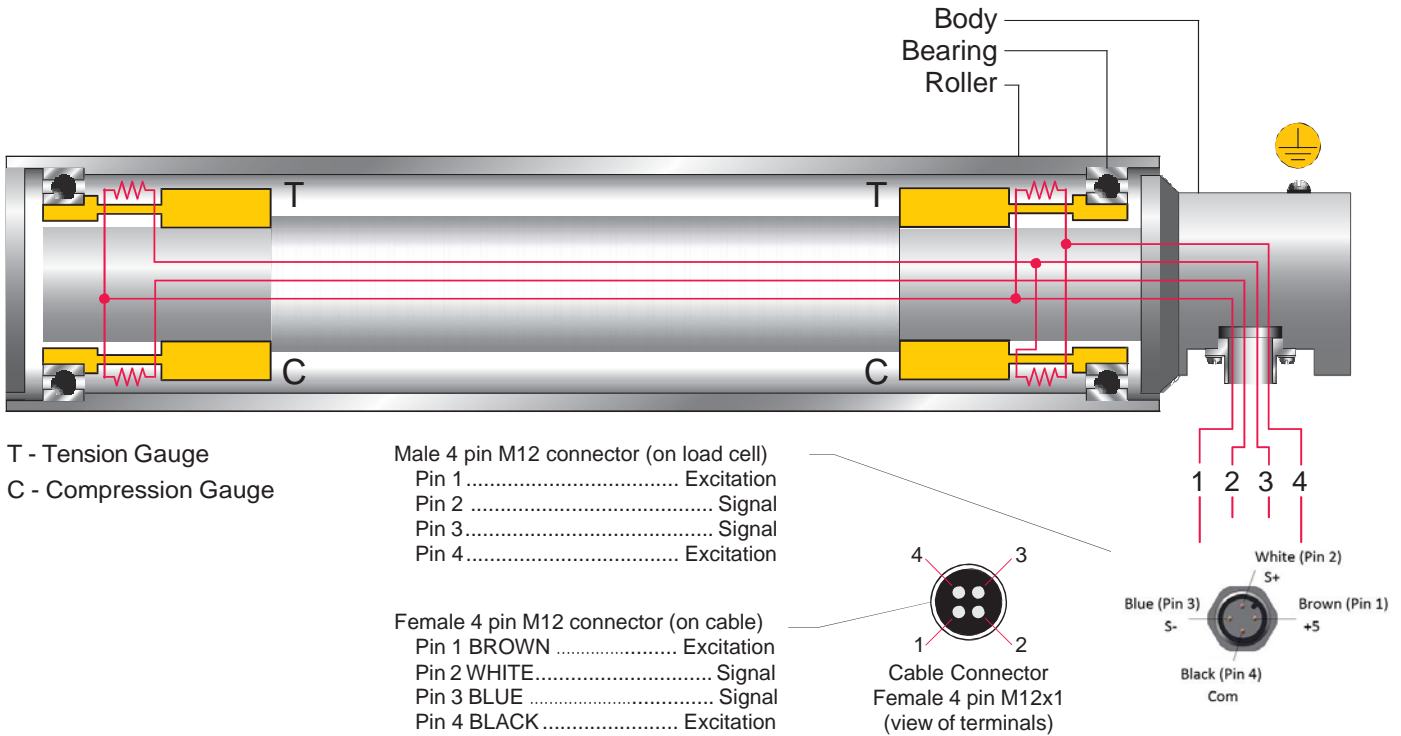
Wiring the amplifier



M12 Cables:

Description	Part Number
M12 Super Shield Cable Straight Connector 6 meters (20') M12SSCSC06	P/N: 950.100.06
M12 Super Shield Cable 90° Connector 6 meters (20') M12SSC90C06	P/N: 950.190.06
M12 Super Shield Cable Straight Connector 15 meters (50') M12SSCSC15	P/N: 950.100.15
M12 Super Shield Cable 90° Connector 15 meters (50') M12SSC90C15	P/N: 950.190.15
M12 Super Shield Cable Straight Connector 23 meters (75') M12SSCSC23	P/N: 950.100.23
M12 Super shield Cable 90° Connector 23 meters (75') M12SSC90C23	P/N: 950.190.23

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Specifications

Electrical

Excitation 5 VDC
Output - nominal 50 mV/V
Gauge Resistance 80 - 130 Ω
Type full bridge semi-conductor
Non-Repeatability $\pm 0.25\%$ full span
Non-Linearity and hysteresis (combined) $\pm 0.50\%$ full span

Loading lb (N)

Rated Size 50 25 (125) / 50 (250)
Size 90 25 (125) / 50 (250) / 100 (500) / 200 (1000)
Size 120 50 (250) / 100 (500) / 200 (1000)

Overload 300% max. of rated

Environmental

Classification IP54
Temperature Compensated 14 to 131°F (-10 to 55°C)
Operating -4 to 185°F (-20 to 85°C)
Effect on zero 0.015% / °C
Effect on span 0.015% / °C

Connector

Type Male 4 pin M12
Pin 1 Excitation
Pin 2 Signal
Pin 3 Signal
Pin 4 Excitation

Mechanical

Finish Mount stainless steel
Roller² 32 microinch aluminum

Weight

CTI 90-150⁴ ~11.0 lb (5.0kg)

Size (WxDxH)

CTI 90-150⁶ 7.87 x 3.54 x 3.54 (200 x 90 x 90)

Dimensions inches (mm)

² Optional roller surface coatings available

³ Add 0.7 lb (.2 kg) for each longer roller

⁴ Add 2.2 lb (1 kg) for each longer roller

⁵ Add 5.5 lb (2.5 kg) for each longer roller

⁶ Add 1.97" (50 mm) to W for each longer roller

⁷ Add 3.94" (100 mm) to W for each longer roller