Ranger Pro Sensor Interface

Datasheet

Bently Nevada Machinery Condition Monitoring

165M4206 Rev. C





Description

The Ranger Pro Sensor Interface and external sensor combination is a smart wireless device that is engineered for quick installation and setup to monitor machine health and compliments existing Ranger Pro solutions (datasheet 125M5237). An applicable sensor is connected to the Ranger Pro Interface module by a short cable. Using industry standard wireless protocols such as ISA 100.11a and WirelessHART, the device complies with international, industrial wireless networking standards engineered to serve the needs of process industries.

The Ranger Pro Sensor Interface enables one applicable sensor to connect via cable to a single Ranger Pro interface module (two sensor connectivity will be available in a future release). This system measures overall velocity, acceleration, with spectrums/waveforms plus temperature ranging from low to high speed applications. Other measurement modalities are forthcoming.

The Bently Nevada Ranger Pro Sensor Interface enables you to:

- Monitor and optimize the reliability of low- and medium-criticality machines.
- Establish or expand existing reliability programs.
- Make maintenance decisions based on current data.
- · Reduce maintenance costs.
- Decrease unplanned machine failures.
- · Increase machinery life.
- Multi-channel support

Ranger Pro Sensor Interface is a simple, easy to implement solution for use in hazardous or difficult to access





environments such as elevated temperatures and tight or enclosed installations.

Use the Ranger Pro Sensor Interface to get short- and long-term trending data, and diagnostic reporting.

Quickly publish overall data through Modbus to third-party tools or spectra and waveform data through Generic Client or Hart IP Interface to Bently Nevada System 1 software. Configure Ranger Pro devices over-the-air using third-party tools or the Ranger Pro Configuration software.



Machinery Applications

Ranger Pro Sensor Interface is a vibration sensor for machines with roller-element bearings including:

- · Agitators
- · Air compressors
- · Ball mills
- Blowers
- · Centrifuges
- · Cooling tower fans and pumps
- Motors
- · Small reciprocating compressors
- · Small hydro and steam turbines

Hardware Features

You can configure Ranger Pro Sensor Interface to work in a variety of environments and applications.

- Tri-axial capable velocity and acceleration detection.
- Machine surface temperature measurement.
- Mounting hardware options to fit most applications and integral alignment capability
- Replaceable lithium-chloride battery.
- IP67 dust and water resistant.
- Embedded sensors connect using the ISA100 wireless or WirelessHART network protocols.
- Can act as a router for other Ranger Pro sensors.

Wireless range varies depending on environmental obstacles, gateway antenna type, and the orientation of the sensor relative to the gateway antenna.

System 1 Support

Ranger Pro collects overall vibration, temperature measurements, timebase waveforms, spectra, and PeakDemod spectrum using Generic Client Interface (GCI) for ISA100 Ranger Pro devices and HART IP for WirelessHART Ranger Pro devices with System 1 software. You can filter overall and dynamic timebase and spectra data.

Network Installation

A typical network installation uses several Ranger Pro Sensor Interface sensors, Ranger Pro repeaters, wireless device managers, and access points. Ranger Pro Interface Module is available in either WirelessHART or ISA100 configuration.

You can use third-party tools or the Ranger Pro Configuration software to quickly provision and configure Ranger Pro devices over-the-air.



Compliance and Certifications

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

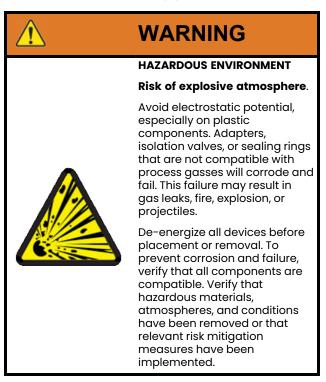
EMC conformity standards	IEC 61326-1, ETSI EN 301 489-1, CISPR22, ETSI EN 301 489-17	
Radio spectrum	ETSI EN 300 328	
Safety	ETSI EN 61010-1, IEC 62479	
Hazardous Atmosphere	CSA Class I, Division1, Group A, B, C, D T4 Class II, Division1, Group F, G T135° ATEX/IECEx Zone 0	
Conformity	Compliant with all CE and FCC/IC requirements	
Valid for RangerPro BN P/N	147M7136-01-11 147M7136-02-11 160M0016-01	

India - Battery EPR Marking

GE Oil & Gas India Private Limited

EPR Certificate No.: 1.1595372902047E+20

Hazardous Area Approvals



North America (US and Canada)	CSA Class I, Zone 0, AEx ia IIC T4 Ga Zone 20, AEx iaD IIIB T135°C Da Class I, Division1, Group A, B, C, D T4 Class II, Division1, Group F, G T135°	
IECEX	Ex ia IIC T4 Ga Ex ia I Ma Ex ia IIIB T135°C Da	
ATEX	II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma II 1D Ex ia IIIB T135°C Da	



Specifications

Ranger Pro Tethered Accelerometer 70M503

Feature	Characteristic	Value
Axis	X, Y, Z	3
Sensing element		Micro-electromechanical sensors (MEMS)
Transverse sensitivity (Typical)	Transverse sensitivity (Typical)	< 7% (160 Hz)
Sensitivity tolerance		±5% (160 Hz)
Sensitivity	Z	39 mV/g
Sensitivity	X, Y	35 mV/g
Amplitude linearity		± 2%
Eroquoney rosponso	Z (± 3 dB)	0.3 Hz to 10 kHz
Frequency response	X, Y (± 3 dB)	0.3 Hz to 2.5 kHz
Decement frequency	Z	> 15 kHz
Resonant frequency	X, Y	5 kHz
Total noise (acceleration rms)	Z: 0.3 to 10 kHz	0.003 g
	X, Y: 0.3 to 2 kHz	0.004 g
	Z: 1-200 Hz	0.18 mm/s [0.007 in/s]
Total noise	Z: 10-1000 Hz	0.09 mm/s [0.004 in/s]
(velocity rms)	X,Y: 1-200 Hz	0.57 mm/s [0.022 in/s]
	X,Y: 10-1000 Hz	0.11 mm/s [0.004 in/s]
Temperature	Sensor type	Digital Resistance Temperature Device (RTD)
	Measurement range	-40°C to 125°C (-40°F to 257°F)
	Resolution	0.1°C (0.06°F)
	Accuracy	±1°C (typical), ±2°C (maximum)
	Measurement Interval	10 min, 20 min, 30 min, 1 h, 2 h, 3 h, 4 h, 6 h



Feature	Characteristic	Value	
	Supply Current	2.09 mA (max)	
Electrical	Output	Multiplexed output	
Electrical	Grounding	Case isolated	
	Connector	Top-exit, M12 A-coded, 5 pin	
Mechanical	Material	316 Stainless	
	Mounting	Integral M20x1.0 Coupling Nut	
	Weight	62 g	
	Sealing	Hermetic	
Environmental	Operating temperature	-40°C to 125°C (-40°F to 257°F)	
	IP Rating	IP66/67 when mated to connector	
	Shock	5000 g	
	Altitude	< 3000 m	

Ranger Pro Sensor Interface: P/N 70M323 and 70M423

Trended Variables



Trend Variables apply when connected to a 70M503 Ranger Pro accelerometer.

Characteristic	Value	
Temperature		
Measurement range	-40°C to 125°C (-40°F to 257°F)	
Resolution 0.1°C (0.06°F)		
Measurement Interval	10 min, 20 min, 30 min, 1 h, 2 h, 3 h, 4 h, 6 h	
Acceleration		
Acceleration amplitude range	0 - 200 m/s ² (0 - 20 g)	
Acceleration units / subunits	g or m/s² / peak or rms	
F _{min}	0.3, 2, 5, 10, 100, 200 (Hz)	
F _{max}	200, 500, 1000, 2000, 5000, 10000‡Hz ‡10,000 only on Z-axis	
Measurement Interval	10 min, 20 min, 30 min, 1 h, 2 h, 3 h, 4 h, 6 h	



Characteristic	Value	
Velocity		
Velocity amplitude range	0 - 50 mm/s (0 - 2 in/s)	
Velocity units / subunits	in/s or mm/s peak or rms	
F _{min}	1, 5, 10 Hz	
F _{max}	200, 500, 1000, 2000 Hz	
Measurement Interval	10 min, 20 min, 30 min, 1 h, 2 h, 3 h, 4 h, 6 h	
PeakDemod		
PeakDemod Pk	Z axis only Parameters based on PeakDemod Spectrum settings below	
Measurement interval	6 h, 8 h, 12 h, 1 d, 2 d, 7 d, 14 d, 28 d	

Waveforms and Spectra

Characteristic	Value	
Acceleration		
Acceleration waveform	X, Y and Z axis	
F _{min}	0.3, 2, 5, 10 Hz	
F _{max}	200, 500, 1000, 2000, 5000, 10000 ‡ Hz ‡ Z-axis only	
Number of samples	1024, 2048, 4096, 8192	
Units/subunits	g or m/s² / peak	
Measurement Interval	6 h, 8 h, 12 h, 1 d, 2 d, 7 d, 14 d, 28 d	
Velocity		
Velocity spectra	X, Y and Z axis depending on sensor model	
Fmin	5,10	
Fmax	200, 500, 1000, 2000	
Number of lines	400, 800, 1600, 3200	
Units/subunits	in/s or mm/s / rms	
Measurement Interval	6 h, 8 h, 12 h, 1 d, 2 d, 7 d, 14 d, 28 d	



Characteristic	Value
PeakDemod	
PeakDemod spectrum or waveform	Z-Axis only
Fmax	200, 500, 1000, 2000, 5000 Hz
Demod Band Min	500, 1000, 2000, 5000 Hz
Units/subunits	g, m/s² / peak
Measurement Interval	6 h, 8 h, 12 h, 1 d, 2 d, 7 d, 14 d, 28 d

Output Data

Value		
Trended Variables		
Modbus: Supported		
GCI: Supported		
Modbus: Supported		
HART-IP: Supported		
Modbus: Not supported		
GCI: Future Release		
Modbus: Supported		
HART-IP: Supported		
Modbus: Supported		
GCI: Supported		
Modbus: Supported		
HART-IP: Supported		
Modbus: Not supported		
GCI: Future Release		
Modbus: Supported (Channel 1 only)		
HART-IP: Supported		
Waveforms and Spectra		
Requires System 1 and either Generic Client Interface (GCI) or HART IP.		



Wireless

Characteristic	Value	
Network standard	ISA100.11a, WirelessHART	
Network topology	Star (ISA100) or mesh (ISA100 or WirelessHART)	
Radio standard	IEEE 802.15.4	
Radio frequency	2.45 GHz ISM band	
Provisioning/ firmware updates	Over-the-air or via the USB docking station.	
Encryption/ security	128-bit AES encrypted packets	
Output power	5.13 dBm, typical	
Wireless range	150 meters sensor to access point, 100 meters sensor to sensor, line of sight. (Actual range depends on obstacles present, gateway antenna type, and orientation of the sensor relative to the gateway antenna.)	
147M7136-01 ISA100 Device		
Typical Conducted Power	8.7 dBm (7.4 mW)	
Modulation	OQPSK, DSSS	
Channel BW	5 MHz,	
Operating Frequency	2.405 to 2.48 GHz	
147M7136-02 WirelessHART Device		
Typical Conducted Power	5.1 dBm (3.3 mW)	
Modulation	OQPSK, DSSS	
Channel BW	5 MHz	
Operating Frequency	2.405 to 2.475 GHz	



Battery and Power

Characteristic	Vo	ılue
	Replaceable D size 3.6V lithium-thionyl chloride with standard button-top termination.	
Туре	batteries: Tadiran 1	one of the following FLH-5930, Tadiran TL-5930, Xeno Energy XL-205F.
Life	Up to five years depending mode and configuration	
Hazardous area temperature range (Ta)	Battery models	Temperature range
	TLH-5930	-40°C < Ta < 80°C
	TL-5930, Xeno XL-205F, Tadiran SL-2780	-40°C < Ta < 70°C

Environmental Conditions

Characteristic	Value
Operating temperature	-40°C to 85°C (-40°F to 185°F) (Operating at extreme temperatures or beyond negatively affects battery life and may damage the device.)
Vibration limit	20 g peak
Chemical resistance	Stainless steel and high temperature, solvent- and UV-resistant PPS plastic.
Shock resistance	0.5 meter drop onto concrete
Altitude	Maximum 3,000 m (9,842 ft.) outdoors
IP rating	IP67 dust and water resistant

Physical/Mechanical

Characteristic	Value
Weight	400 grams with battery
Dimensions	Height: 100 mm; diameter: 40 mm
Case material	316 stainless steel body and glass-reinforced, impact-resistant PPS top
Mounting hole	M6 x 1 mm X 6.5 mm deep internal thread



Regulatory Compliance

Characteristic	Value
EMC conformity standards	IEC 61326-1, ETSI EN 301 489-1, CISPR22, ETSI EN 301 489-17
Radio spectrum	ETSI EN 300 328
Safety	ETSI EN 61010-1, IEC 62479
Hazardous Atmosphere	CSA Class 1 Division 1 Groups A, B, C, D T4 ATEX/IECEx Zone 0 Class II, Division1, Group F, G T135°
Conformity	Compliant with all CE and FCC/IC requirements
Valid for Ranger Pro BN P/N	70M323, 70M423, 70M503

Entity Parameters

Characteristic	Value
Ranger Pro Interface Modules	Lo: 800 μH Co: 3.78 μF
	Uo: 5.88V Io: 196 mA
	Po: 288 mW
Ranger Pro Triaxial Accelerometer	Lo: 0 μH Co: 1.87 μF
	Uo: 11.1V Io: 249 mA
	Po: 450 mW

ISA100.11a compatible gateways †

Characteristic	Value
Bently Nevada	Bently Nevada 70M320 ISA100.11a Gateway Up to 50 Ranger Pro devices per Gateway See the Ranger Pro Gateway Datasheet 157M8584
	YFGW 410 Field Wireless Management Station Up to 4 access points = 160 sensors
Yokogawa	YFGW 510 and YFGW 520 Field Wireless Access Points. Up to 40 Ranger Pro sensors per access point.



Characteristic	Value
Honeywell Ranger Pro sensor catalog number 70M323 is recommended for ISA100a Gateway	WDM Wireless Device Manager R310.2-4 or newer Up to 8 access points = 320 sensors FDAP Field Device Access Point
	Up to 40 Ranger Pro sensors per access point
Number of Hops (Depth to Gateway)	3

WirelessHART compatible gateways.†

Characteristic	Value
Emerson 1410S	1410S (compatible with firmware version 6.4.5 or newer) up to 200 Ranger Pro sensors per gateway
Emerson 1410A/B/D	1410 (compatible with firmware version 4.7.84 or newer) up to 70 Ranger Pro sensors per gateway
Emerson 1420	1420 (compatible with firmware version 4.7.84 or newer) up to 70 Ranger Pro sensors per gateway
Ranger Pro sensor catalog number 70M423 is recommended for WirelessHART Gateway Number of Hops (Depth to Gateway)	3

[†] Generic Client Interface (GCI) or HART IP required. Order when new or license as necessary.

Accelerometer to Interface Module Cable

Characteristic	Value
Mechanical	
Length	5 m, 10 m
Number of Conductors	5
Connector Type	M12 A-Code 5-Pin Plug and socket, straight
Connector Contact Pin	Gold Plated Copper Alloy



Characteristic	Value	
Connector Housings	Stainless Steel	
Cable Jacket	Black XLPE	
Cable Shield	Braided (≥ 90% coverage), Tinned-Copper. Electrically terminated to Interface module connector only.	
Cable Diameter	0.3 in, typical	
Bend Radius	Diameter x 12	
Electical		
Rated Voltage	300 Vdc	
Environmental		
Operating Temperature	-40°C to 125°C	
IP Rating	IP67 when mated	
RoHS	Compliant	
REACH	Compliant	
UV Resistance	Yes	
Flamability	FT2	

System 1

v21.1 or higher. Refer to System 1 121M7997 release notes for compatibility guidelines.

Advanced Features

Characteristic	Value	
Data on Demand		
Mode	User-initiated. Acquisition initiated from Ranger Pro Configuration Software.	
Status	Idle, Requested or Busy	
Data on Vibration		
Threshold	User settings. Range: 0 to 0.1 in/s rms	
Mode	Enabled/Disabled	
Detection	XYZ vector sum or Z axis only	



Characteristic	Value
Status	On or Off
Data on Severity	Vibration
Mode	Enabled/Disabled
TA Proven Method Level 3	User settings. Range: 0.05 to 2.5 in/s rms
TA Proven Method Level 4	User settings. Range: 0.05 to 2.5 in/s rms
Detection	XYZ vector sum or Z axis only
Status	Green, Yellow or Red when enabled
Data on Severity	Temperature
Mode	Enabled/Disabled
User Setting	32 to 257°F 0 to 125°C
Detection	Temperature of sensor base
Status	Green, Yellow, or Red when enabled



Ordering Information



For the detailed listing of country and product-specific approvals, refer to the *Approvals Quick Reference Guide* (108M1756).

For additional technical documentation, please log in to bntechsupport.com and access the Bently Nevada Media Library.

Ranger Pro Accelerometer

70M503-AA-BB-CC-DD

A: Mounting Options

00 No Stud

01 M20x1.0 to 1/4-28

02 M20x1.0 to 3/8-24

03 M20x1.0 to 10-32

04 M20x1.0 to M6x1.0

05 M20x1.0 to M8x1.25

06 M20x1.0 to Cementing pad

07 M20x1.0 to 0.25x1.0 in Motor fin mount

08 M20x1.0 to 0.25x1.75 in Motor fin mount

09 M20x1.0 to 0.5x1.25 in Motor fin mount

10 M20x1.0 to 0.5x2.0 in Motor fin mount

B: Connector Type

01 Top Exit

C: Cable

00 No Cable

05 5 meter

10 neter

D: Approvals: Agency Approval Option

01 North America Cl1 Div1

02 ATEX/IECEX

Ranger Pro Acceleration Interface

WirelessHART 70M423-AA-BB

ISA100 70M323-AA-BB



Ranger Pro versions 70M323, 70M423 use the same ordering information.

A: Bat	A: Battery Option	
00	No battery	
01	Battery supplied, not installed	
B: Agency Approval Option		
01	North America Cl1 Div1	
02	ATEX/IECEX	

Ranger Pro Installation Kit

130M5452 - AA

Description: Installation kit including battery installation tool, O-rings, wrenches, and USB readers.

	A: Installation Package
00	Installation Tools
01	Installation Tools and USB Reader
02	USB Reader only



System 1 Ranger Pro Device License

3071/13 - AA-BB-CC

Description: System 1 device license for Ranger Pro installed for use with System 1. One device license is required per interface module.

A: Not Applicable for Ranger Pro

00

B: Not Applicable for Ranger Pro

00

C: Ranger Pro Device

00 ## Number of licenses required



Option 3071/13 is only applicable to Ranger Pro devices that are installed for use with System 1. To order System 1, see **System 1 Software Package Datasheet** (document 108M5214). The AA option is only for vbOnline Pro device licenses. The BB option is only for 2300 monitor device licenses.



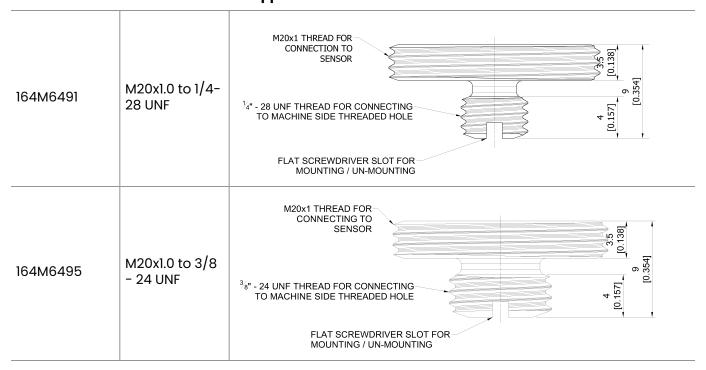
Spare Mounting Adapters

Illustrations shown are not to scale. All mounting adapters are made from 316 stainless steel. Units are mm[in]

Part Number	Size	Illustration
Standard Studs		



Applies to all standard studs.

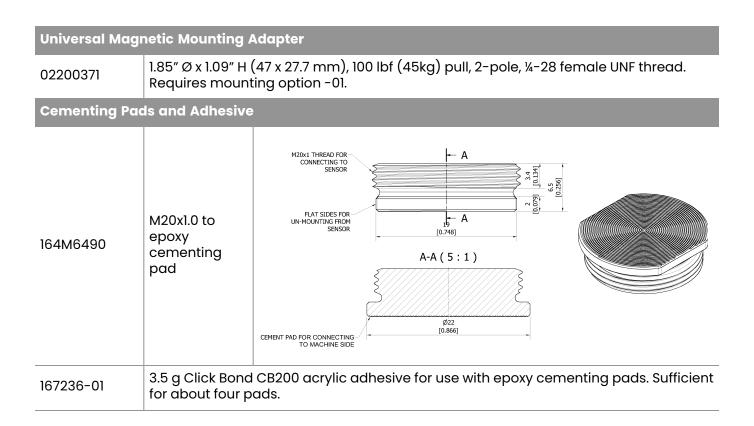




Part Number	Size	Illustration
164M6487	M20x1.0 to #10-32	#10 - 32 UNF THREAD FOR CONNECTING TO SENSOR #10 - MACHINE SIDE THREADED HOLE FLAT SCREWDRIVER SLOT FOR MOUNTING / UN-MOUNTING
164M6489	M20x1.0 to M6x1.0	M20x1 THREAD FOR CONNECTING TO SENSOR M6x1 THREAD FOR CONNECTING TO MACHINE SIDE THREADED HOLE FLAT SCREWDRIVER SLOT FOR MOUNTING / UN-MOUNTING
164M6493	M20x1.0 to M8x1.25	M20x1 THREAD FOR CONNECTING TO SENSOR M8x1.25 THREAD FOR CONNECTING TO MACHINE SIDE THREADED HOLE FLAT SCREWDRIVER SLOT FOR MOUNTING / UN-MOUNTING



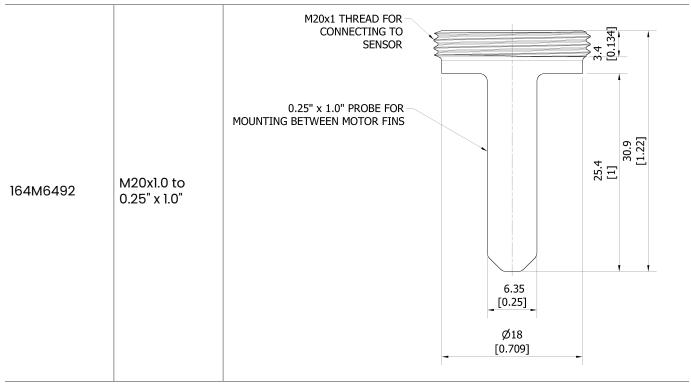
Part Number	Size	Illustration
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Part Number	Size	Illustration
Motor Fin Adhesive Mounts		







Part Number	Size	Illustration
164M6486	M20x1.0 to 0.25" x 1.75"	0.25" x 1.75" PROBE FOR MOUNTING BETWEEN MOTOR FINS 6.35 [0.25] Ø18 [0.709]



Part Number	Size	Illustration
164M6488	M20x1.0 to 0.5" x 1.25"	M20x1 THREAD FOR CONNECTING TO SENSOR 0.5" x 1.25" PROBE FOR MOUNTING BETWEEN MOTOR FINS 12.7 [0.5 in] Ø18 [0.709]



Part Number	Size	Illustration
164M6485	M20x1.0 to 0.5" x 2.00"	M20x1 THREAD FOR CONNECTING TO SENSOR 0.5" x 2.0" PROBE FOR MOUNTING BETWEEN MOTOR FINS 12.7 [0.5]
		Ø18 [0.709]



Expect a decrease in X, Y, Z accuracy when using fin type mounts.



Accessories

The installation kit (1305452) includes a battery installation tool, two installation wrenches, spare Orings, and USB docking station. These parts can also be ordered individually.

Product or Document	Item		
164M6494	Ranger Pro Interface Module Mounting Bracket and fasteners		
159М7787	Ranger Pro Cap: additional protection for high moisture installations		
121M7993	Battery installation tool		
160M0017	5 meter cable		
160M0018	10 meter cable		
129M0166	Sony USB configuration docking station		
146M4035	Case O-ring 35 x 1 mm (qty. 20)		
146M4036	E-module O-ring 34 x 1 mm (qty. 20)		
125M3923	D-sized lithium-thionyl chloride 3.6 V battery		
121M7997	Ranger Pro Sensor Interface configuration software (not available for order, it is available for no charge from Bently Nevada Technical Support)		
125M6113	Ranger Pro Sensor Interface User Guide		



Catalog Order Number (1)	Part Number	Figure
70M323- XX-XX	147M7136-01-11	S/N: ADYYM### CSAI8CA70178198 CI 1DN 1Gr ABCD 14 CI 10 N 1Gr ABCD 14 CI 17 AD AEX to D III 135°C CI 17 AEX TO D III 135°C CI 17 AEX TO D III 135°C CI 17 AEX TO D III 135°C CI 18 AEX TO
70M423- XX-XX	147M7136-02-11	S/N: ADYYM### CSA18CA70178198 CSA18CA7017819 CSA18CA701
70M503- XX-XX- XX-XX	160M0016-01	Bently Nevada Triaxial Accelerometer P/N: 160M0016-01 1631 Bently Parkway South Minden, NV 89423 USA Made in South Africa AZ Y CSA18CA70178198 CI I Div 1 Gr ABCD T4 cu s CI II Div 1 Gr FG T135°C CI I Zn 0 AEx ian IIC T4 Ga Zn 20 AEx ian IIC T4 Ga II II GE xi a IIC T4 Ga II II GE xi a IIC T4 Ga II II DE xi a II MA II II DE xi a III B T135°C Da Sira 18ATEX2151X 0598 IECEX CSA 18.0021X Ui: 11.1V Ii: 249mA Pi: 550 mW Li: 0H CI: 1.87µF -40°C4Tas+100°C



Drawings and Figures

Dimensions are given in mm [inches] unless noted otherwise.

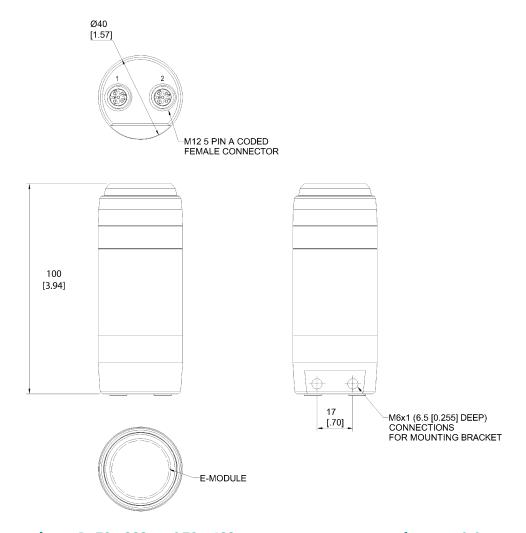


Figure 1: 70M323 and 70M423 Ranger Pro Sensor Interface Modules

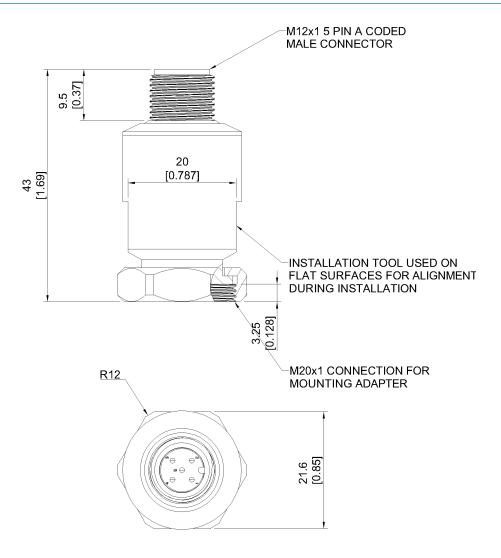


Figure 2: Ranger Pro 70M503 Accelerometer Top Exit

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