

Long Range 4-20 mA Output

# The **HX-P420** position transducer provides a 4 to 20 mA output signal with a potentiometric sensor. The HX-P420 is particularly advantageous in electrically noisy environments. Since the transmitter is loop powered, an assembled system consists of a power supply, current monitor, and transmitter all connected in series. Zero and span adjustments allow setting the 4 mA position within the first 30% of total travel and setting the 20 mA position within 80% to 100% of total travel. The HX-P420 may be powered with a supply voltage in the range of 9 to 35 VDC subject to the total loop resistance.



(UM)

## MODEL NUMBER CONFIGURATION

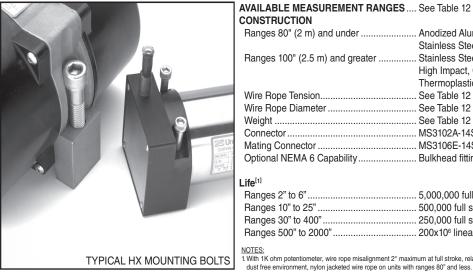
ENERAL		ELECTRICAL	
Measurement Ranges		Output	User Adjustable 4 to 20 mA
Sensing Device		Excitation Voltage	
Connector	MS3102E-14S-6P	Min. Supply Voltage	(.02 x Load Res.) + 9 VDC
Mating Connector (included)		Insulation Resistance	100 Megohms min. at 100 VDC
RFORMANCE		Adjustment Range	-
inearity		4 mA	0 to 30% of Range
2", 3", 4", 5" & 6"Ranges	±0.30% Full Scale		80% to 100% of Range
10", 15", 20" & 25" Ranges		Protection	Reversed Polarity
All other ranges	±0.15% Full Scale		-
Repeatability		Intrinsic Safety (Optional):	
Resolution		Class 1, Div 1, Groups A,B	,C,D CUL) us
NVIRONMENTAL		Class 2, Groups E, F, G	LISTED 44TU
Thermal Coefficient of Sensing Element.		Class III hazardous location	ns Exia
Operating Temperature			
Dperating Humidity		LOAD RESISTANCE VS INPUT VOLTAGE	CONNECTION DIAGRAM
/ibration			
hock		(m 1300- 1200-	+Vin A 4-20 mA
GRESS PROTECTION (Exclusion		∝ 1000- 5 800 -	
Standard	• •	× 1000- 50 800 - 51 800 - 58 800 - 58 400 -	
Optional	. ,		D POSITION
		0 10 15 20 25 30 35	E POTENTIOMET
OTNOTES TO SPECIFICATIONS Supplemental Data section located at er		SUPPLY VOLTAGE, V VMN = .02R + 9	E
IX-P420-			INFIGURATION (FOR ALL RANG
			INFIGURATION (FOR ALL RANG 20-50-S10-N0S-1BC
IX-P420-	1 2 3 4 5 6	789 HX-P4	
IX-P420-	HAZARDOUS AREA PROTECTION		20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4)
IX-P420-	(4) HAZARDOUS AREA PROTECTION		20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6)
<b>IX-P420-</b> <b>RANGE</b> Select Measurement Range From Supplemental Da Table 12) 12 (next page), Insert Corresponding	HAZARDOUS AREA PROTECTION NNone XUL, CSA Intrinsically Safe "X" Option available for measurement	7         8         9         HX-P4           LISTED 44TU         7         INGR 1	20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6)
IX-P420-	HAZARDOUS AREA PROTECTION NNone XUL, CSA Intrinsically Safe	7   8   9   HX-P4     Image: state	20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6)
IX-P420- RANGE Select Measurement Range From Supplemental DaTable 12> 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE	HAZARDOUS AREA PROTECTION NNone XUL, CSA Intrinsically Safe "X" Option available for measurement	7         8         9         HX-P4           Image: Constraint of the state of the s	20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Constru
IX-P420- RANGE Select Measurement Range From Supplemental DaTable 12) 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE SStainless Steel	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>0Required Designator</li> </ul>	7         8         9         HX-P4           Image: Constraint of the state of the s	20-50-S10-N0S-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Constru -NEMA 4 CONNECTOR
RANGE Select Measurement Range From Supplemental Da[Table 12] 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE S Stainless Steel (Gee Supplemental Data, Table 12)	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>0Required Designator</li> <li>ELECTRICAL OUTPUT POLAI</li> </ul>	7         8         9         HX-P4           I         I         I         1         1           I         I         I         1         1         1           I         I         I         I         1 <td>20-50-S10-NOS-1BC ESS PROTECTION  IP-65 (NEMA 4)  IP-68 (NEMA 6)  IP-68 (NEMA 6) Corrosion Resistant Constru -NEMA 4 CONNECTOR  6 Pin 3102E Body Mounted Connector -NEMA 6 ELECTRICAL CABLE</td>	20-50-S10-NOS-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Constru -NEMA 4 CONNECTOR 6 Pin 3102E Body Mounted Connector -NEMA 6 ELECTRICAL CABLE
IX-P420- RANGE Select Measurement Range From Supplemental Da[Table 12] 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE SStainless Steel (See Supplemental Data, Table 12) MINE Acketed Stainless Steel	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>0Required Designator</li> </ul>	7         8         9         HX-P4           1         CULUS         7         INGR           1         CULUS         7         INGR           1         CULUS         3         3           1         CULUS         8         IP-65-           B         P         9         IP-68-           Pope is extended)         9         3         3	20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-68 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construe -NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 6 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10°) Electrical CablBulkhead Fitting w/ 3m (10°) Electrical Cabl
IX-P420- RANGE Select Measurement Range From Supplemental Da[Table 12] 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE S Stainless Steel (See Supplemental Data, Table 12) N 0.018 (0,45 mm) Nylon Jacketed Stainless Steel Ranges to 80° (2m) only. (formerly NJC)	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>IRequired Designator</li> <li>ELECTRICAL OUTPUT POLAI</li> <li>SStandard (increasing output as wire</li> </ul>	7         8         9         HX-P4           Image: Constraint of the system         7         INGR           Image: Constraint of the system         8         IP-65           Image: Constraint of the system         9         1           Image: Constraint of the system         8         IP-65           Image: Constraint of the system         9         1           Image: Constraint of the system         9         1           Image: Constraint of the system         9         1         1 <t< td=""><td>20-50-S10-NOS-1BC ESS PROTECTION  IP-65 (NEMA 4)  IP-68 (NEMA 6)  IP-68 (NEMA 6) Corrosion Resistant Construe NEMA 4 CONNECTOR  6 Pin 3102E Body Mounted Connector NEMA 6 ELECTRICAL CABLE  Bulkhead Fitting w/ 0.3m (12") Electrical Cable  Bulkhead Fitting w/ 3m (10) Electrical Cable  Bulkhead Fitting w/ 4m (13.5') Electrical Cable</td></t<>	20-50-S10-NOS-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Construe NEMA 4 CONNECTOR 6 Pin 3102E Body Mounted Connector NEMA 6 ELECTRICAL CABLE Bulkhead Fitting w/ 0.3m (12") Electrical Cable Bulkhead Fitting w/ 3m (10) Electrical Cable Bulkhead Fitting w/ 4m (13.5') Electrical Cable
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IX-PP4200- RANGE Select Measurement Range From Supplemental Da[Table 12] 12 (next page), Insert Corresponding Measurement Range Designator WIRE ROPE S Stainless Steel (See Supplemental Data, Table 12) N 0.018 (0,45 mm) Nylon Lackted Stainless Steel Ranges to 80° (2m) only. (formerly NJC) J 0.037 (0,94 mm) Nylon Lackted Stainless Steel	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>IRequired Designator</li> <li>ELECTRICAL OUTPUT POLAI</li> <li>SStandard (increasing output as wire</li> </ul>	7       8       9       HX-P4         1       CULUE       7       INGR         1       CULUE       7       INGR         1       CULUE       7       INGR         1       CULUE       8       IP-65         B       IP-68       P       3         erope is extended)       3       4       5         6       7       INGR       7	20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-66 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Constru IP-68 A CONNECTORBulkhead Fitting w/ 0.3m (12") Electrical CableBulkhead Fitting w/ 3m (10°) Electrical CableBulkhead Fitting w/ 4m (13.5°) Electrical CableBulkhead Fitting w/ 6m (20°) Electrical CableBulkhead Fitting w/ 6m (20°) Electrical CableBulkhead Fitting w/ 6m (20°) Electrical CableBulkhead Fitting w/ 7m (23°) Electrical Cable
RANGE         Select Measurement Range From         Supplemental Data Table 12 12         (next page), Insert Corresponding         Measurement Range Designator         WIRE ROPE         S	<ul> <li>HAZARDOUS AREA PROTECTION         <ul> <li>NNone</li> <li>XUL, CSA Intrinsically Safe</li> <li>"X" Option available for measurement ranges to 800" maximum.</li> </ul> </li> <li>IRequired Designator</li> <li>ELECTRICAL OUTPUT POLAI</li> <li>SStandard (increasing output as wire</li> </ul>	7       8       9       HX-P4         1       CULUE       7       INGR         1       CULUE       8       IP-65         8       IP-65       9       IP-65	20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Constru IP-68 (NEMA 6) Corrosion Resistant Construction IP-68 (NEMA 6) CONSTRUCTIOR IP-68 (NEMA 6) CONSTRUCTION IP-68 (NEMA 6) CONSTRUCTION IP-68 (NEMA 6) CONSTRUCTION IP-68 (NEMA 6) CONSTRUCTION
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HX-P420-         Image: Select Measurement Range From Supplemental Data Table 12         Select Measurement Range From Supplemental Data Table 12         Image: Select Measurement Range Designator         Image: Select Measurement Range Desit Measurement Range Designator <tr< td=""><td><ul> <li>HAZARDOUS AREA PROTECTION NNone XUL, CSA Intrinsically Safe "X" Option available for measurement ranges to 800" maximum.</li> <li>0Required Designator</li> <li>ELECTRICAL OUTPUT POLAI SStandard (increasing output as wire RReversed (decreasing output as wire)</li> </ul></td><td>7       8       9       HX-P4         1<!--</td--><td>20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-66 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construct -NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 5 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 7m (23') Electrical Cable</td></td></tr<>	<ul> <li>HAZARDOUS AREA PROTECTION NNone XUL, CSA Intrinsically Safe "X" Option available for measurement ranges to 800" maximum.</li> <li>0Required Designator</li> <li>ELECTRICAL OUTPUT POLAI SStandard (increasing output as wire RReversed (decreasing output as wire)</li> </ul>	7       8       9       HX-P4         1 </td <td>20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-66 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construct -NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 5 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 7m (23') Electrical Cable</td>	20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-66 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construct -NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 5 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 7m (23') Electrical Cable
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PANGE         Select Measurement Range From         Supplemental Datable 12}         (next page), Insert Corresponding         Measurement Range Designator         WIRE ROPE         S	<ul> <li>HAZARDOUS AREA PROTECTION NNone XXNone XXNone XX XNone XX X</li></ul>	7       8       9       HX-P4         1 </td <td>20-50-S10-NOS-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct Methead Fitting w/ 0.3m (12°) Electrical Cable Bulkhead Fitting w/ 3m (10°) Electrical Cable Bulkhead Fitting w/ 3m (10°) Electrical Cable Bulkhead Fitting w/ 4m (13.5°) Electrical Cable Bulkhead Fitting w/ 6m (20°) Electrical Cable Bulkhead Fitting w/ 7m (23°) Electrical Cable IP-65 Mating Connector Included IP-65 Mating Connector May be orc tely as part number 10119-xM where 'x' is the le d in meters. Meta 6 CABLE MOUNTED CONNECC</td>	20-50-S10-NOS-1BC ESS PROTECTION IP-65 (NEMA 4) IP-68 (NEMA 6) IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct IP-68 (NEMA 6) Corrosion Resistant Construct Methead Fitting w/ 0.3m (12°) Electrical Cable Bulkhead Fitting w/ 3m (10°) Electrical Cable Bulkhead Fitting w/ 3m (10°) Electrical Cable Bulkhead Fitting w/ 4m (13.5°) Electrical Cable Bulkhead Fitting w/ 6m (20°) Electrical Cable Bulkhead Fitting w/ 7m (23°) Electrical Cable IP-65 Mating Connector Included IP-65 Mating Connector May be orc tely as part number 10119-xM where 'x' is the le d in meters. Meta 6 CABLE MOUNTED CONNECC
<b>IXX-PP4200-</b> Image: Status of the	<ul> <li>HAZARDOUS AREA PROTECTION NNone XNone XNone XNotion available for measurement ranges to 800" maximum.</li> <li>IRequired Designator</li> <li>ELECTRICAL OUTPUT POLAI SStandard (increasing output as wire RReversed (decreasing output as wire) RReversed (decreasing output as wire) RReve</li></ul>	7       8       9       HX-P4         1 </td <td>20-50-S10-NOS-1BC ESS PROTECTIONP-65 (NEMA 4)</td>	20-50-S10-NOS-1BC ESS PROTECTIONP-65 (NEMA 4)
<b>IXX-PP4200-</b> Image: Status of the	<ul> <li>HAZARDOUS AREA PROTECTION NNone XXNone XXNone XX XNone XX X</li></ul>	7       8       9       HX-P4         1 </td <td>20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-65 (NEMA 4)IP-68 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construct NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 6 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 7m (23') Electrical Cable</td>	20-50-S10-NOS-1BC ESS PROTECTIONIP-65 (NEMA 4)IP-65 (NEMA 4)IP-68 (NEMA 6)IP-68 (NEMA 6)IP-68 (NEMA 6) Corrosion Resistant Construct NEMA 4 CONNECTOR6 Pin 3102E Body Mounted Connector -NEMA 6 ELECTRICAL CABLEBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 3m (10') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 5m (16.5') Electrical CableBulkhead Fitting w/ 7m (23') Electrical Cable

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Long Range 4-20 mA Output

# **MECHANICAL SPECIFICATIONS**



CONSTRUCTION	
Ranges 80" (2 m) and under	Anodized Aluminum Mounting Base
	Stainless Steel & Anodized Aluminum Housing
Ranges 100" (2.5 m) and greater	Stainless Steel Mounting Base
	High Impact, Corrosion Resistant
	Thermoplastic Housings
Wire Rope Tension	See Table 12
Wire Rope Diameter	See Table 12
Weight	
Connector	
Mating Connector	MS3106E-14S-6S
Optional NEMA 6 Capability	Bulkhead fitting with shielded twisted pair cable
Life <sup>[1]</sup>	
Ranges 2" to 6"	5 000 000 full stroke evelos
	· · · · · · · · · · · · · · · · · · ·
Ranges 10" to 25"	
Ranges 30" to 400"	
Ranges 500" to 2000"	200x10 <sup>6</sup> lineal inches

<u>NOTES:</u> 1. With 1K ohm potentiometer, wire rope misalignment 2° maximum at full stroke, relatively dust free environment, nylon jacketed wire rope on units with ranges 80° and less.

Colur	Use value from this column to indicate overall measurement range						indicat nt range	es avai e	lable			TABLE 12
MEASUREMENT RANGE DESIGNATOR	MEASU	IDARD REMENT NGES	APPLIC HX-PA HX-PB HX-P420 HX-P510	ABLE S	HX-V HX-VP	TEN	ROPE SION (INAL)		ROPE IETER		DUCER	Product Photo
	(in)	(mm)	HX-F310			(oz)	(N)	(in)	(mm)	(lb)	(Kg)	
2	2	50	~	-	~	34	9.4	.016	0.4	2	0.9	
3	3	75	V	-	~	24	6.7	.016	0.4	2	0.9	
4	4	100	V	-	~	24	6.7	.016	0.4	2	0.9	
5	5	125	~	-	~	19	5.3	.016	0.4	2	0.9	
6	6	150	~	-	~	24	6.7	.016	0.4	2	0.9	
10	10	250	V	~	~	34	9.4	.016	0.4	2	0.9	2 Cunaman a
15 20	15 20	390	V	-	V	24	6.7	.016	0.4	2	0.9	
20	20 25	500 640	V	-	~	24 19	6.7 5.3	.016	0.4 0.4	2	0.9 0.9	Later -
30	25 30	640 750	~	V -	~ ~	24	5.3 6.7	.016	0.4	2	0.9	
40	40	1000	V	-	V	24	6.7	.016	0.4	2	0.9	
50	50	1250	V	V	V	19	5.3	.016	0.4	2	0.9	
60	60	1500	V	~	V	24	6.7	.016	0.4	2	0.9	
80	80	2.0m	V	~	V	21	5.8	.016	0.4	2	0.9	
	00	2.0111		-			0.0	.010	0.1	-	0.0	
100	100	2.5m	~	~	~	36	10.0	.024	0.6	6.8	3.1	
120	120	3.0m	V	V	V	36	10.0	.024	0.6	6.8	3.1	
150	150	3.8m	V	V	V	36	10.0	.024	0.6	6.8	3.1	
200	200	5.0m	~	V	V	36	10.0	.024	0.6	6.8	3.1	0
250	250	6.3m	~	V	V	36	10.0	.024	0.6	6.8	3.1	
300	300	7.5m	V	V	V	36	10.0	.024	0.6	6.8	3.1	
350	350	8.8m	V	~	~	36	10.0	.024	0.6	6.8	3.1	
400	400	10.0m	V	V	V	36	10.0	.024	0.6	6.8	3.1	and the second se
500	500	12.5m	~	~	~	36	10.0	.024	0.6	8.6	3.9	
600	500 600	12.5m	V	~	~	36	10.0	.024	0.6	8.6	3.9	
800	800	20.3m	V	~	~	36	10.0	.024	0.6	8.6	3.9	
			•	Ť								
1000	1000	25.4m	V	~	-	36	10.0	.024	0.6	12.0	5.4	5
1200	1200	30.4m	~	~	-	36	10.0	.024	0.6	12.3	5.6	
1600	1600	40.6m	V	V	-	36	10.0	.024	0.6	14.1	6.4	
1000	1000	45 7-0				00	10.0	001	0.0	15.0	70	
1800	1800	45.7m	V	V	-	36	10.0	.021	0.6	15.9	7.2	
2000	2000	50.8m	<b>v</b>	~	-	36	10.0	.021	0.5	16.3	7.4	

Specifications subject to change without notice

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Long Range 4-20 mA Output

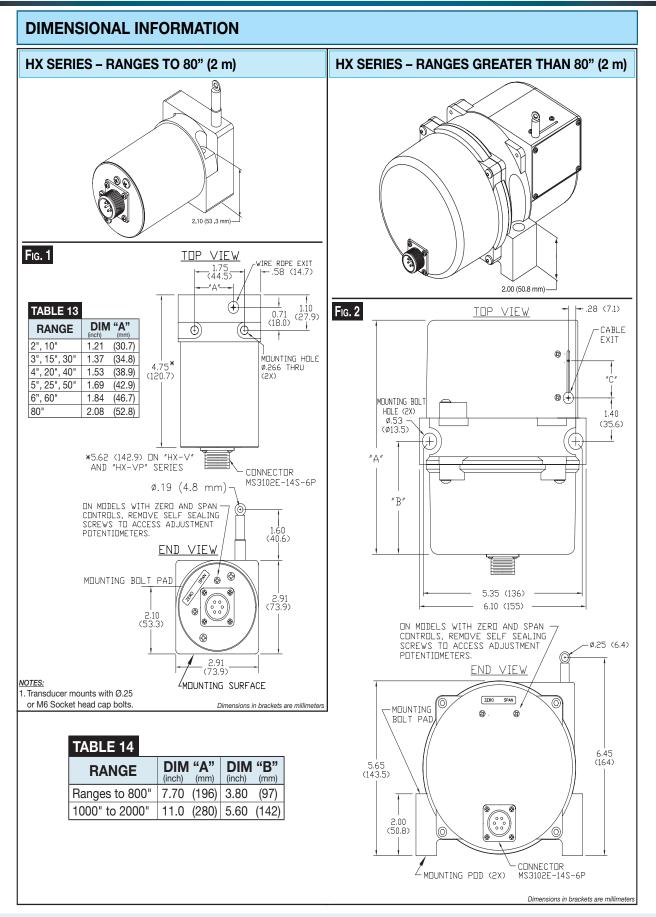
## **OPTION DESCRIPTIONS**

OPTION DESCRIPTIONS		
OPTION	OPTION DESIGNATOR	DESCRIPTION
NYLON JACKETED WIRE ROPE	N	Replaces standard stainless steel wire rope with $\emptyset.018$ nylon jacketed wire rope. This option increases wire rope life dramatically but may increase non-linearity by as much as $\pm.05\%$ of full scale.
NYLON JACKETED WIRE ROPE RANGES 100" TO 500" ONLY	J	Replaces standard stainless steel wire rope with Ø.037 nylon jacketed wire rope.
ALTERNATE WIRE ROPE EXIT	1, 2, 3	1       2       3         I       2       3         I       2       3         I       2       3         I       2       3         I       2       3         I       2       3         I       2       3         I       2       3       1         I       2.18       1       1.60         (55.4)       MEUNTING SURFACE       -       -         MEUNTING HELES       1.21 (30.7)       -       -         3'', 15'', 30''       .96(24.4)       1.95 (49.5)       1.21 (30.7)         3'', 15'', 30''       .96(24.4)       1.95 (49.5)       1.37 (34.8)         4'', 20'', 40''       .80 (20.3)       2.11 (53.6)       1.53 (38.9)         5'', 25'', 50''       .64 (16.3)       2.27 (57.7)       1.69 (42.9)         6'', 60''       .49 (12.4)       2.42 (61.5)       1.84 (46.7)         80''       .25 (6.4)       2.66 (67.6)       2.08 (52.8)         Dimensions in brackets are millimeters       J       J       J       J       J
ALTERNATE WIRE ROPE EXIT RANGES 100" (2.5 m) and GREATER	1, 2, 3	1 2 3 3 4 5 1 4 5 1 4 5 1 4 5 1 2 3 3 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1
NON-STANDARD POTENTIOMETER	3, 4	Non-standard potentiometer linearity is as follows:RANGELINEARITY5" and Below±1.00% of full scale10" to 25"±0.50% of full scale30" and above±0.25% of full scaleNote: This option is subject to potentiometer availability.
REVERSED OUTPUT	R	Output is at a maximum when wire rope is fully retracted. Output decreases as wire rope is extended. Does not apply to velocity signal.
IP-68, (NEMA 6) CAPABILITY	2	Connector is replaced with a bulkhead fitting and a designated length of urethane jacketed, shielded, twisted pair cable. Retraction mechanism and electrical components are sealed to IP-68, (NEMA 6) capability.
CORROSION RESISTANT CONSTRUCTION	3	All external anodized aluminum parts of transducer are replaced with stainless steel and corrosion resistant plastic. Transducer is sealed to IP-68 (NEMA 6) capability. Urethane jacketed, shielded, twisted pair cable exits unit. No connector on unit.

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Long Range 4-20 mA Output



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