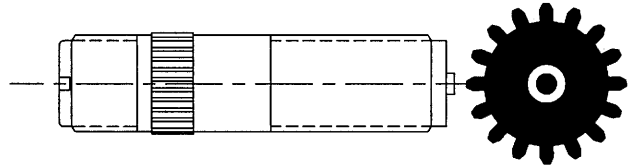


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and Interface Electronics*



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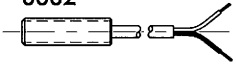
www.spectecsensors.com

SHORT FORM CATALOG

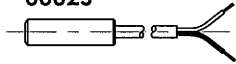
Output Voltage (Vpp): Determined against ref. gear DP at a velocity of 1000 IPS with an air gap of 0.005"
Air Gap: **M VRS Type:** .25 max. depending on target mass and velocity.
MI Inductive Type: 1" max. depending on magnetic field strength and velocity.
Temp. Ranges: **2T;** -100° to 250° F (-73° to 120° C)
3T; -150° to 330° F (-101° to 165° C)
5HT; -450° to 450° F (-270° to 232° C)
8HT; -450° to 850° F (-270° to 454° C)

3/16 Thread Size: 10-32
Length (L): .5 - 2.5" (13-64mm)
Coil Type 1: R: 100 Ohm; L: 5mH; 8Vpp
Temp Ranges: 2T, or 5HT

0002



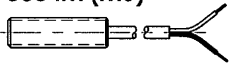
0002S



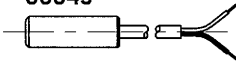
1/4 Thread Size: 1/4-40, 1/4-28, M6x1
M6 Length (L): .6 - 3" (15-75mm)
Coil Type 1: 125 Ohm; 10 mH; 5 Vpp
Coil Type 2: 250 Ohm; 10 mH; 10 Vpp
Temp Ranges: 2T, or 5HT

0004A

0004M (M6)

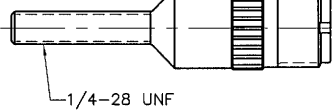


0004S



0005

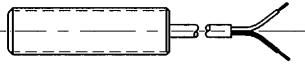
0005M (M6)



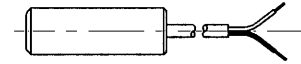
3/8 Thread Size: 3/8-24, M10x1.25
M10 Length (L): .6 - 5" (15-130mm)
Coil Type 1: 100 Ohm; 16 mH; 25 Vpp
Coil Type 2: 300 Ohm; 80 mH; 70 Vpp
Coil Type 3: 650 Ohm; 160 mH; 85 Vpp
Coil Type 4: 1100 Ohm; 450mH; 110 Vpp
Temp Ranges: 2T, 3T, or 5HT

0008

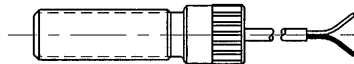
0008M (M10)



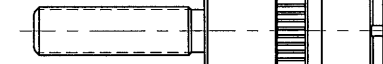
0008S



0007



0009



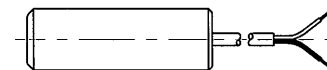
1/2 Thread Size: 1/2-20, M12x1
M12 Length (L): .8 - 5" (20-130mm)
Coil Type 1: 140 Ohm; 20 mH; 30 Vpp
Coil Type 3: 650 Ohm; 160 mH; 85 Vpp
Temp Ranges: 2T, or 5HT

0010A

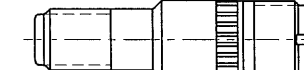
0010M (M12)



0010S



0011

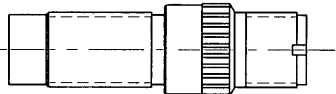


**5/8
M16**

Thread Size: 5/8-18 UNF, M16x1.5
Length (L): .8 - 10" (20-250mm)
Temp Ranges: 2T, 3T, or 5HT

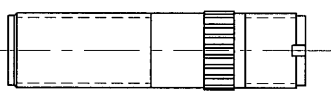
Coil Type 1: 100 Ohm; 30 mH; 45 Vpp (Power)
Coil Type 2: 230 Ohm; 90 mH; 75 Vpp
Coil Type 4: 1100 Ohm; 700 mH; 210 Vpp (Standard)
Coil Type 5: 1500 Ohm; 800 mH; 240 Vpp
Coil Type 6: 3000 Ohm; 1500 mH; 290 Vpp
Coil Type 7: 5000 Ohm; 2500 mH; 330 Vpp (High Output)

0014

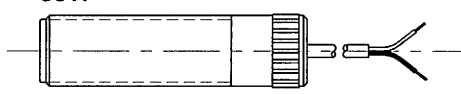


0015

0015M (M16)

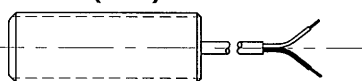


0017

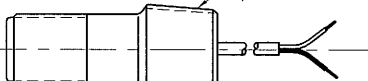


0019

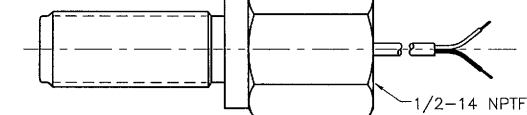
0019M (M16)



0032



0037



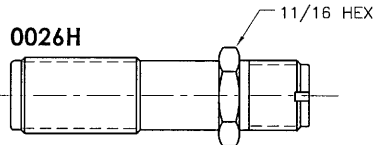
11/16

Thread Size: 11/16-24
Length (L): .8 - 3.5" (20-90mm)
Coil Types: 4 through 7
Temp Ranges: 2T, 3T or 5HT

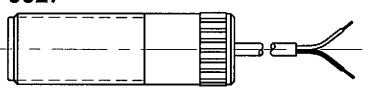
0026



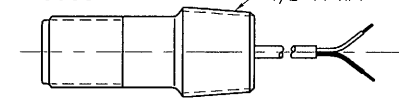
0026H



0027



0033



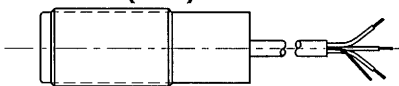
3/4

M18

Thread Size: 11/16-24, 3/4-16, 3/4-20, M18x1.5
Length (L): .8 - 10" (20-250mm)
Coil Types: 1 through 7
Temp Ranges: 2T, 3T, or 5HT

0029

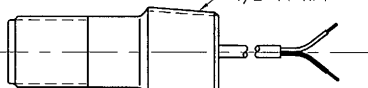
0029M (M18)



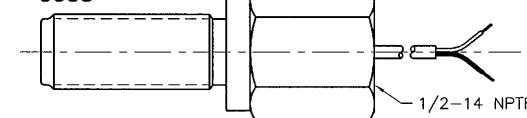
0030



0035



0038



5/8

11/16

3/4

M18

Thread Size: 5/8-18, 11/16-24, 3/4-16, 3/4-20, M18x1.5
Length (L): 3 - 10" (76-250mm)
Coil Type 1: 120 Ohm
Temp Ranges: 8HT; -450 to 850°F (-270 to 454°C)

0025



DUAL OUTPUT TYPES

Available in the same housing configurations as single output models.

0021: Connector Versions

0022: Lead Wire Versions

Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

Supply Voltage (Vs): 3.5 - 30 Vdc @ 15 mA, MICROPOWER Model: 2 to 6 Vdc @ 0.06 mA
 Pulse Out (Vo): 0 - Vs, 0 - 5 V(TTL), 0 - 10 V, OC (NPN/PNP)
 Freq. Range: 0 - 40 kHz (Std.), 100 kHz (Spcl.)
 Air Gap: 0.03" Typ., .50" Max. Depending on target mass and velocity.
 Temp. Ranges: **2TE**; -40° to 220° F (-40° to 120° C)
3TE; -40° to 290° F (-40° to 145° C)

5/8 M16 Thread Size: 5/8-18, M16x1.5
 Length (L): 2.5 - 10" (64-250mm)

0091
0091M (M16)



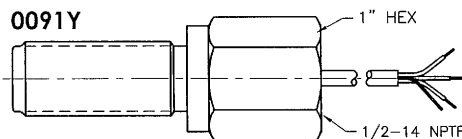
0090
0090M (M16)



0091X 1/2-14 NPT

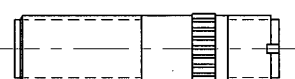


0091Y



11/16 Thread Size: 11/16-24
 Length (L): 2.5 - 3.5" (64-90mm)

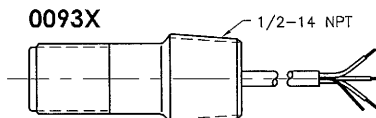
0092



0093



0093X



3/4 M18 Thread Size: 3/4-16, 3/4-20, M18x1.5
 Length (L): 2.5 - 10" (64-250mm)

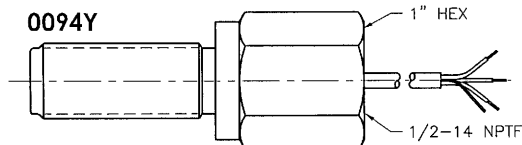
0094
0094M (M18)



0094L
0094ML (M18)



0094Y



PA-20

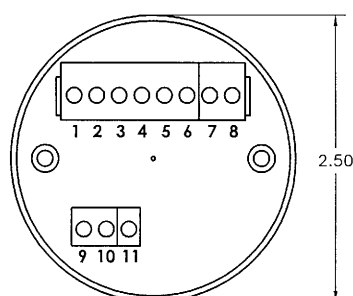
Supply Voltage (Vs): 5-30 Vdc Std.
Input Current: 15 mA Std.
Pulse Out (Vo): 1-10 Vpp Std.
Input Sensitivity: 30 mV, 12 mV, 5 mV
Temp. Ranges: **Standard:** -40 to 160 F (-40 to 80 C), **In Line and Ultra Compact:** -40 to 248 F (-40 to 120 C)
Freq. Range: Up to 100kHz depending on target mass and air gap.

MICROPOWER versions are available for ultra low current draw, ideal for battery applications

Supply Voltage (Vs): 2 - 6 Vdc
Input Current: 0.06 mA
Input Sensitivity: 12 - 40 mV
Freq. Range: 1 Hz - 30 kHz

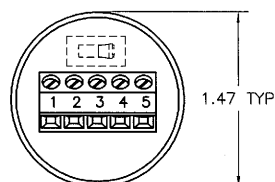
4021

PULSE AMPLIFIER
MULTI OUTPUT, NOISE CANCELING
STANDARD AND/OR OPTO-ISOLATED
FOR GUAL-16 TYPE EXPL. PR. ENCL.



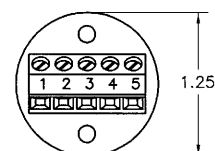
4022

PULSE AMPLIFIER
W/ OPTIONAL OUTPUT SELECT
FOR ELBY EXPL. PR. ENCL.



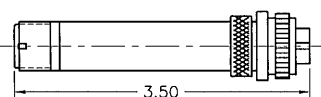
4023

PULSE AMPLIFIER
FOR Y1 EXPL. PR. ENCL.

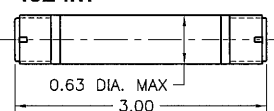


4024

IN-LINE PULSE AMPLIFIER
WITH MS CONNECTOR

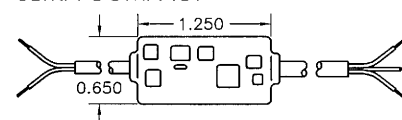


4024M



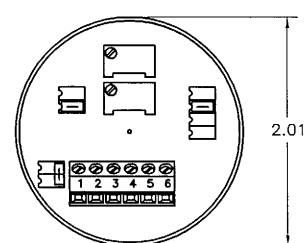
4024H

ULTRA COMPACT



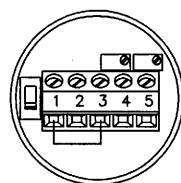
4026

FTC/FTV CONVERTER
FTC: 4-20, 10-50mA,
FTV: 0-5, 0-10 V
FOR Y3 EXPL. PR. ENCL.



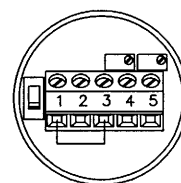
4027

FTC CONVERTER
4-20 mA FOR
ELBY EXPL. PR. ENCL.



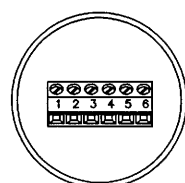
4028

FTV CONVERTER
0-5 V OR 0-10 V FOR
ELBY EXPL. PR. ENCL.



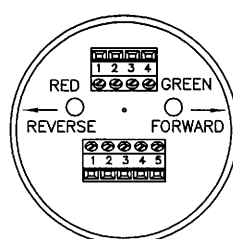
4029

DIGITAL OPTO-ISOLATED
CURRENT LOOP
FOR ELBY EXPL. PR. ENCL.



4033

DIRECTIONAL MAG PREAMP
PROVIDES DIRECTIONAL DATA
FROM TWO MAG PICKUPS
FOR Y3 EXPL. PR. ENCL.



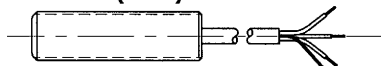
Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

Inductance/Resistance Options: **RF4**; 4.00 Ohm, 0.36 mH
RF10; 12.00 Ohm, 1.00 mH\
 Temp. Ranges: **3T**; -150 to 330 F (-101 to 165 C)
4HT; -250 to 400 F (-157 to 204 C)
5HT; -450 to 450 F (-270 to 232 C)

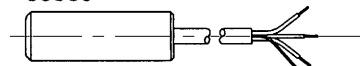
NOTE: Must be used with PA-10

3/8 Thread Size: 3/8-24, M10x1.25
M10 Length (L): .5 - 5" (13-130mm)

0050
0050M (M10)



0050S

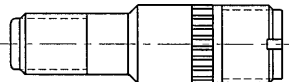


1/2 Thread Size: 1/2-20
 Length (L): .5 - 5" (13-130mm)

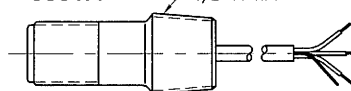
0051



0052



0051X

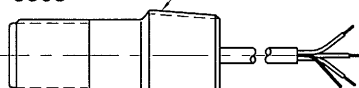


5/8 Thread Size: 5/8-18, M16x1.5
M16 Length (L): .5 - 10" (13-250mm)

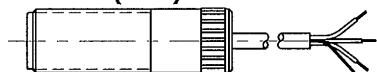
0055
0055M (M16)



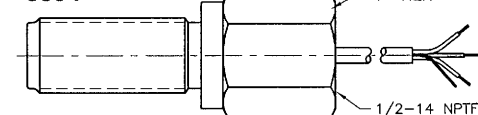
0065



0054
0054M (M16)



0064

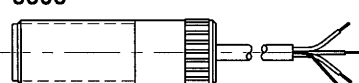


11/16 Thread Size: 11/16-24
 Length (L): .5 - 3.5" (13-90mm)

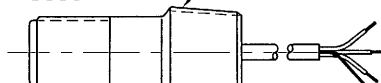
0059



0060

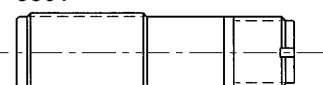


0066

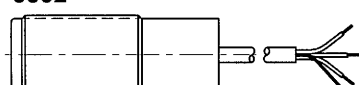


3/4 Thread Size: 3/4-16, 3/4-20, M18x1.5
M18 Length (L): .5 - 10" (13-250mm)

0061



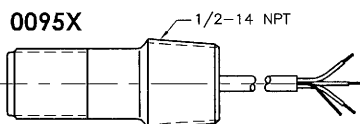
0062



Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

Supply Voltage (Vs): 7-30 Vdc @ 15 mA
 Pulse Out (Vo): 0-Vs, 0-5V, 0-10V, OC (NPN/PNP)
 Freq. Range: 0.5 Hz - 5 kHz
 Air Gap: 0.16" (4mm) Max., Depending on target mass and velocity.
 Temp. Ranges: **2TE**: -40° to 220° F (-40° to 120° C)
 3TE: -40° to 290° F (-40° to 145° C)

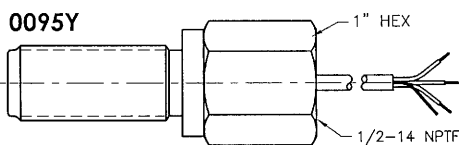
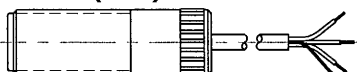
5/8 Thread Size: 5/8-18, M16x1.5
M16 Length (L): 2.5 - 10" (64-250mm)



0096
0096M (M16)



0095
0095M (M16)

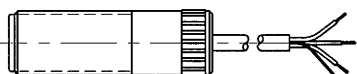


11/16 Thread Size: 11/16-24
 Length (L): 2.1-3.5" (54-90mm)

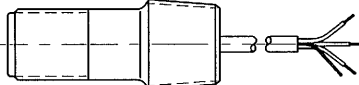
0097



0098

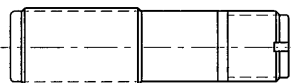


0098X

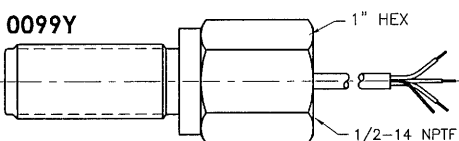
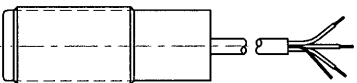


3/4 Thread Size: 3/4-16, 3/4-20, M18x1.5
M18 Length (L): 2.1-10" (54-250mm)
 Temp. Ranges: 3T, 4HT, OR 5HT

0099
0099M (M12)



0099L
0099LM

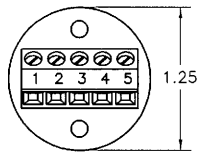


PA-10

Supply Voltage (Vs): 7-30 Vdc or 3-8 Vdc (MICROPOWER)
Supply Current: ≤ 10 mA
Pulse Out (Vo): 0-10 V or 0-5 V (MICROPOWER)
Frequency Range: Near 0 to 5 kHz, depending on target mass and Air Gap
Air Gap: 0.16" Max depending on target mass
Temp. Ranges: **2TE**; -40° to 220° F (-40° to 120° C)
3TE; -40° to 290° F (-40° to 145° C)

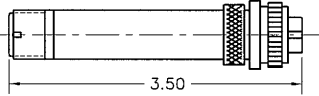
4013

PULSE AMPLIFIER
FOR Y1 EXPL. PR. ENCL.

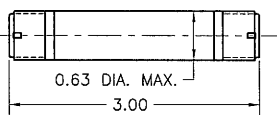


4014

IN-LINE PULSE AMPLIFIER
WITH MS CONNECTOR

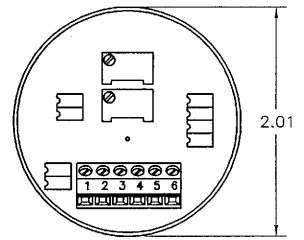


4014M



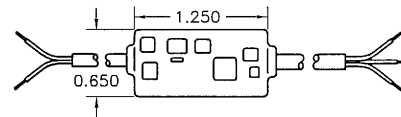
4016

FTC 4-20mA, 10-50mA,
FTV 0-5 V, 0-10 V
FOR Y3 EXPL. PR. ENCL.



4014H

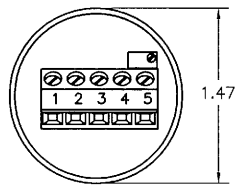
ULTRA COMPACT



SPEED/FLOW SWITCH, TEMP. TRANSMITTER, POWER SUPPLY

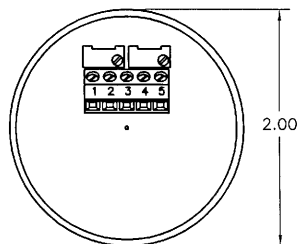
4051

SPEED/FLOW SWITCH, SS1
MAG TYPE, OPEN COLLECTOR
OUTPUT
FOR ELBY EXPL. PR. ENCL.



4032

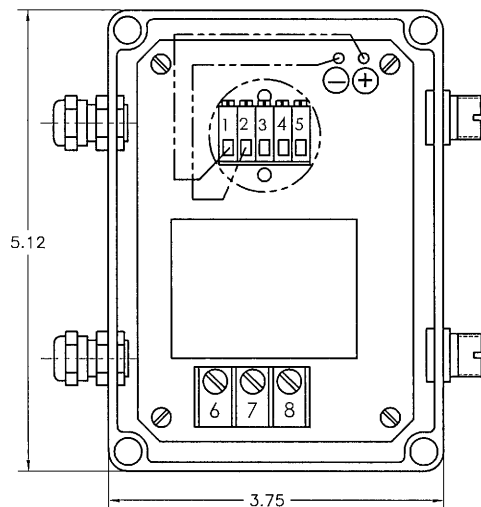
2-WIRE TEMPERATURE TRANSMITTER
FOR USE w/ RTDs or
THERMOCOUPLES
FOR Y-3 EXPL. PR. ENCL.



4100

UNIVERSAL POWER SUPPLY
FOR SIGNAL CONDITIONERS
IN NEMA 4 ENCLOSURE

Supply Voltage (Vs): 120 VAC $\pm 10\%$, 25 mA
Voltage Out (Vo): 5V, 12V or 24V
Connections: AC primary DC output



Supply Voltage (Vs): 4.5 - 30 Vdc @ 15 mA
 Pulse Out (Vo): 0 - Vs, 0 - 5 V(TTL), OC (NPN/PNP)
 Freq. Range: 0 - 25 kHz (Std.), ≤ 100 kHz (Spcl.)
 Air Gap: Magnet Actuated; 0.50" (12mm) Max., **Gear Actuated; 0.16" (4mm) Max.**
 Temp. Ranges: **2TE**; -40 to 220° F (-40° to 120° C), or **3TE**; -40° to 290° F (-40° to 145° C)

1/4 Thread Size: 1/4-28, 1/4-40, M6x1
M6 Length (L): 0.80 - 3.00" (20-76mm)

0155A

0155M (M6)

0165A

0165M (M6)

0155K

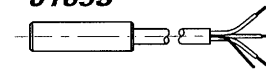
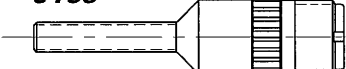
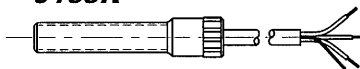
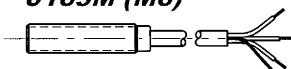
0165K

0155

0165

0155S

0165S



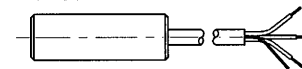
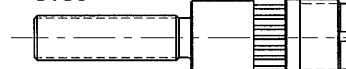
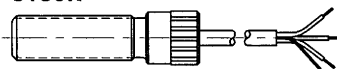
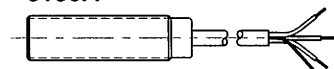
3/8 Thread Size: 3/8-24, M10x1.25
M10 Length (L): 0.80 - 5.00" (20-130mm)

0156A

0156K

0156

0156S



1/2 Thread Size: 1/2-20, M12x1
M12 Length (L): 0.80 - 5.00" (20-130mm)

0158S

0168S

0158A

0158M (M12)

0168A

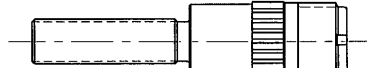
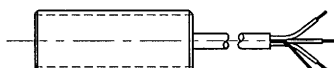
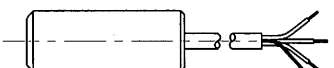
0168M (M12)

0158

0158MC (M12)

0168

0168MC (M12)



5/8 Thread Size: 5/8-18, M16x1.5
M16 Length (L): 0.80 - 10.00" (20-250mm)

Available with Dual Output

0161

0161M (M16)

0169

0169M (M16)

0160A

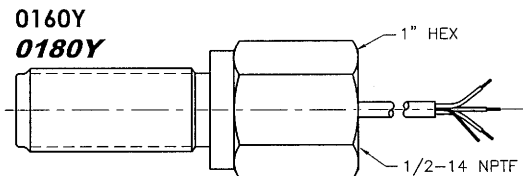
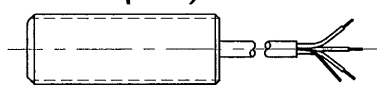
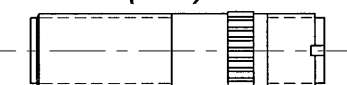
0160M (M16)

0170A

0170M (M16)

0160Y

0180Y



3/4 Thread Size: 3/4-16, 3/4-20, M18x1.5
M18 Length (L): 2.00 - 6.00"

Available with Dual Output and an
 Additional Directional Output

0162

0162M (M18)

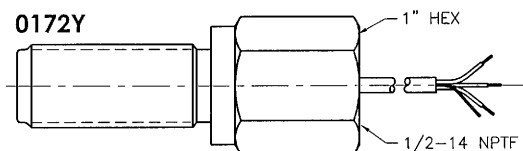
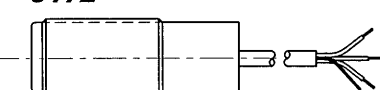
0172

0162C

0162MC (M18)

0171

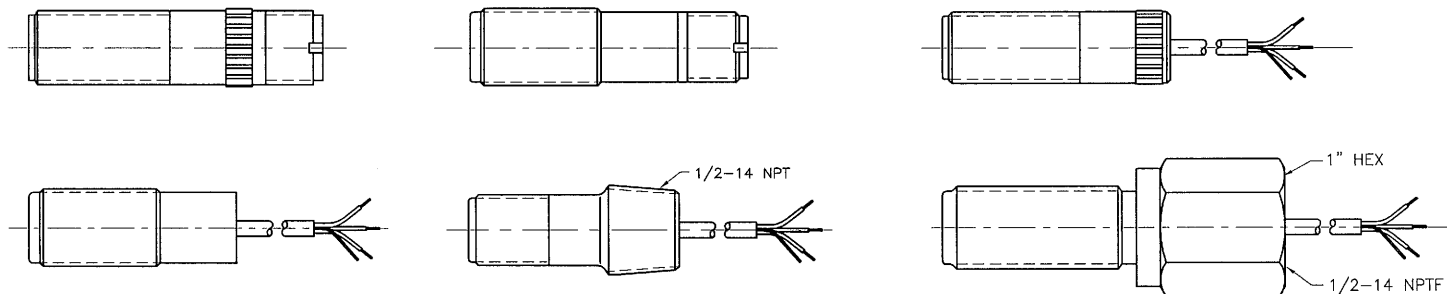
0172Y



Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

5/8 Thread Size: 5/8-18, 3/4-16, 3/4-20, M16x1.5, M18x1.5
3/4 Length (L): 2.5 - 10" (64-250mm)

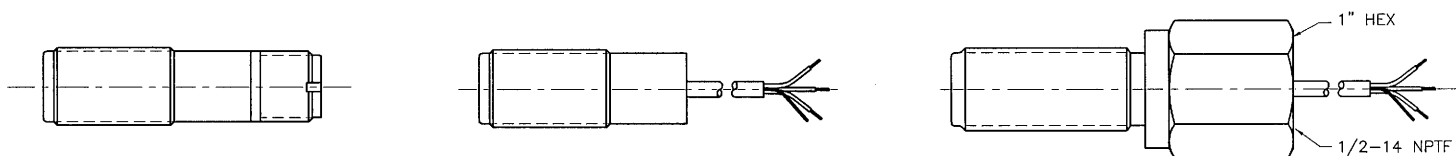
M16
M18 **0220-0224 SERIES**



DIGISPEC QUADRATURE ZERO SPEED SENSORS

Directional

3/4 Thread Size: 3/4-16, 3/4-20, M18x1.5
M18 Length (L): 2.5 - 10" (64-250mm)



COMPLIANCE: CE: EN55011, EN50022-2

◀ FM ▶ IS

Class I, Zone 0, AEX ia IIC
CLASS I,II,III, DIV. 1
GROUP ABCDEFG

INSTALLATION:

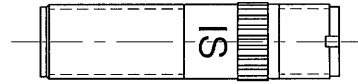
Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FM engineering control drawing 85047.

**5/8
M16**

Thread Size: 5/8-18, M16x1.50
Length (L): 2 - 10" (45 - 250mm)

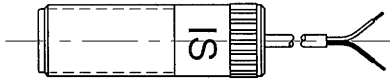
IS40

IS42 (W/ TEMP PROBE)



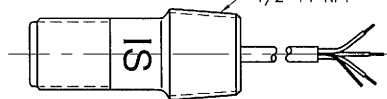
IS41

IS43 (W/ TEMP PROBE)



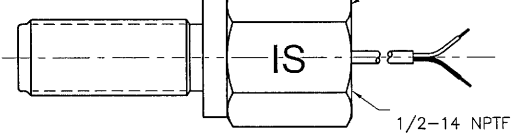
IS41X

IS43X (W/ TEMP PROBE)



IS41Y

IS43Y (W/ TEMP PROBE)

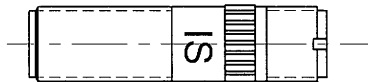


11/16

Thread Size: 11/16-24
Length (L): 1.8 - 3.5" (45 - 92mm)

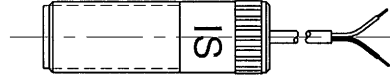
IS40

IS42 (W/ TEMP PROBE)



IS41

IS43 (W/ TEMP PROBE)



IS41X

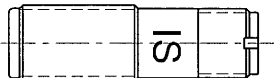
IS43X (W/ TEMP PROBE)



**3/4
M18**

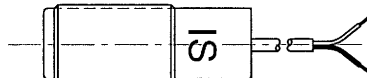
Thread Size: 1.8 - 10" (45 - 250mm)
Length (L):

IS40



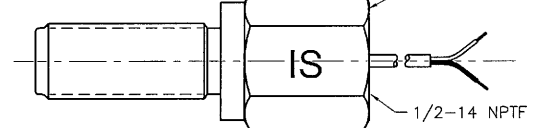
IS41

IS43 (W/ TEMP PROBE)



IS41Y

IS43Y (W/ TEMP PROBE)

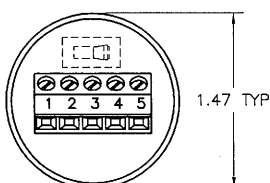


SIGNAL CONDITIONERS

Fits ELBY50 or ELBY75 Explosion Proof Junction Box

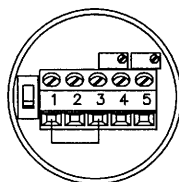
IS4022

MAG PULSE AMPLIFIER
W/ OPTIONAL OUTPUT
SELECTION



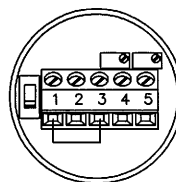
IS4027

MAG FTC CONVERTER
4-20 mA OUTPUT



IS4022

MAG FTV CONVERTER
0-5 V OR 0-10 V FOR



Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

COMPLIANCE: CE: EN55011, EN50022-2

◀ FM ▶ IS

Class I, Zone 0, AEX ia IIC
CLASS I,II,III, DIV. 1
GROUP ABCDEFG

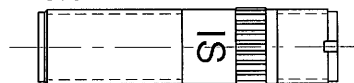
INSTALLATION:

Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FM engineering control drawing 85047.

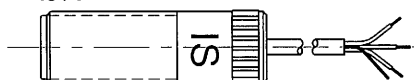
**5/8
M16**

Thread Size: 5/8-18, M16x1.50
Length (L): 2.5 - 10" (64 - 250mm)

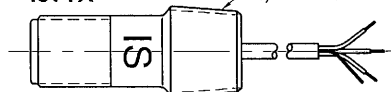
IS90



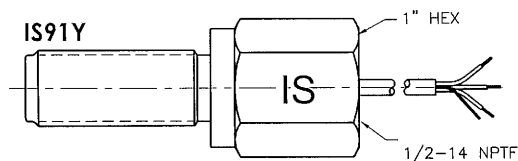
IS91



IS91X



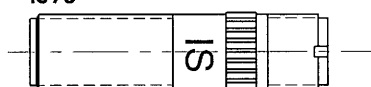
IS91Y



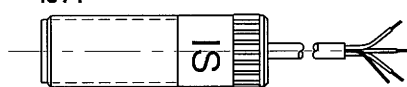
11/16

Thread Size: 11/16-24
Length (L): 2.5 - 3.5" (64 - 90mm)

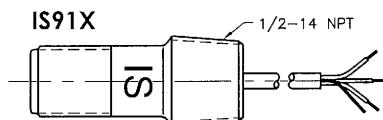
IS90



IS91



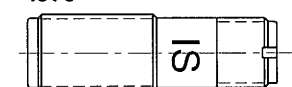
IS91X



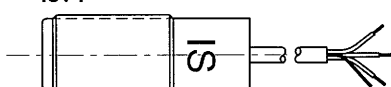
**3/4
M18**

Thread Size: 11/16-24
Length (L): 2.50 - 10" (64 - 250mm)

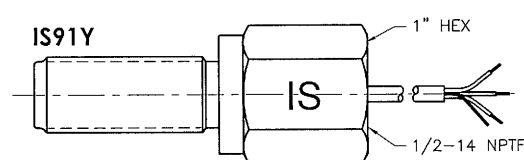
IS90



IS91



IS91Y



Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

COMPLIANCE: CE: EN55011, EN50022-2

◀ FM ▶ IS

Class I, Zone 0, AEX ia IIC
CLASS I,II,III, DIV. 1
GROUP ABCDEFG

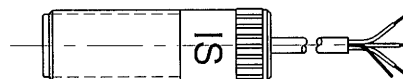
INSTALLATION:

Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FM engineering control drawing 85047.

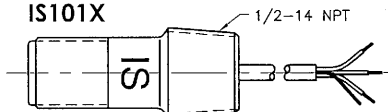
**5/8
M16**

Thread Size: 5/8-18, M16x1.50
Length (L): 3 - 10" (76 - 250mm)

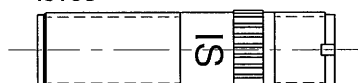
IS101



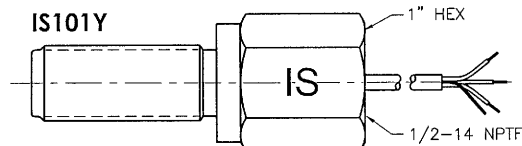
IS101X



IS100



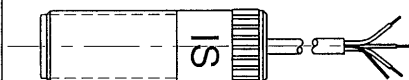
IS101Y



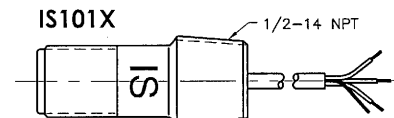
11/16

Thread Size: 11/16-24
Length (L): 2.8 - 3.5" (71 - 90mm)

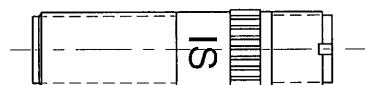
IS101



IS101X



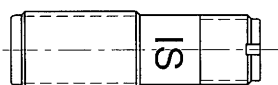
IS100



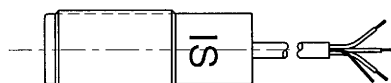
**3/4
M18**

Thread Size: 11/16-24
Length (L): 2.8 - 10" (71 - 250mm)

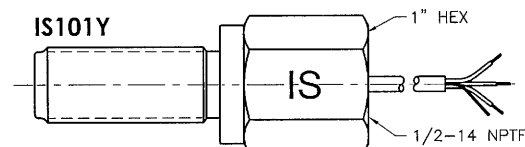
IS100



IS101



IS101Y



Detailed spec-sheets are available for each sensor listed, please contact Spectec for more information.

COMPLIANCE: CE: EN55011, EN50022-2

◀ FM ▶ IS

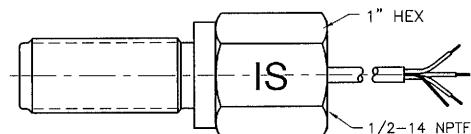
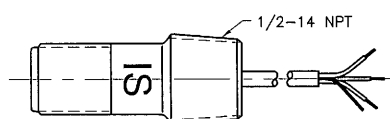
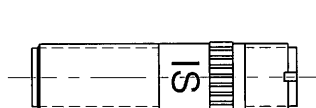
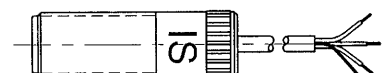
Class I, Zone 0, AEX ia IIC
CLASS I,II,III, DIV. 1
GROUP ABCDEFG

INSTALLATION:

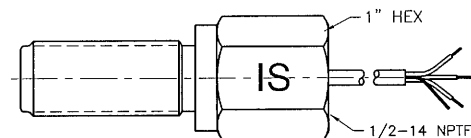
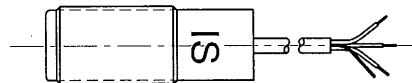
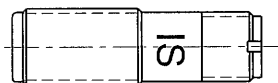
Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FM engineering control drawing 85047.

IS160/IS161; Magnet Actuated, Single Output
IS180/IS181; Magnet Actuated, Dual Output
IS170/IS171; Gear Actuated, Single Output
IS174/IS175; Gear Actuated, Dual Output
IS190/IS191; Gear Actuated, Directional (Quadrature)

5/8 Thread Size: 5/8-18, M16x1.5
M16 Length (L): 1.8 - 10" (45 - 250mm)



3/4 Thread Size: 3/4-16, 3/4-20, M18x1.5
M18 Length (L): 1.8 - 10" (45 - 250mm)



COMPLIANCE: CE: EN55011, EN50022-2

◀ FM ▶ IS

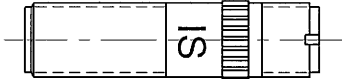
Class I, Zone 0, AEX ia IIC
CLASS I,II,III, DIV. 1
GROUP ABCDEFG

INSTALLATION:

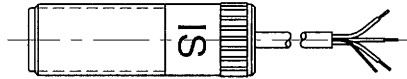
Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FM engineering control drawing 85047.

5/8 Thread Size: 5/8-18, M16x1.5
M16 Length (L): 2 - 10" (78 - 250mm)

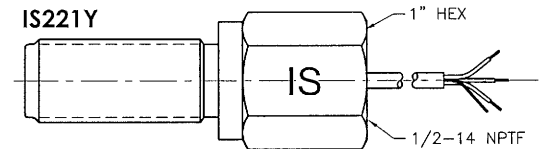
IS220K



IS221K

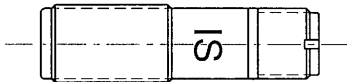


IS221Y

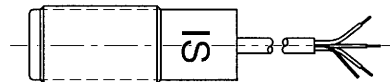


3/4 Thread Size: 3/4-20, M18x1.5
M18 Length (L): 2 - 10" (78 - 250mm)

IS220A



IS221A



Detailed spec-sheets are available for each product listed, please contact Spectec for more information.