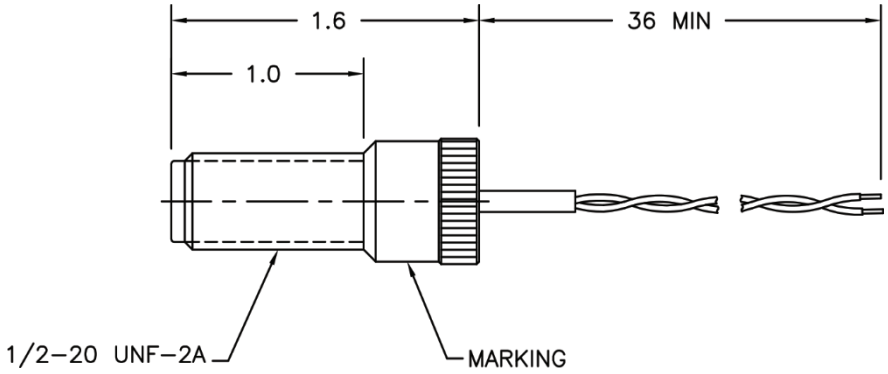
Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil — Lead Wire Type, 1/2 -20

FLOWMETRICS P/N	GAUSS	TEMP. RANGE	PRODUCT CODE	P/N
0010-35311-2G	150	-450 to 450° F	M-L36" K1/2-20x1.0/1.6" 5HT	0010-35311-150G



CONSTRUCTION: HOUSING: 303 STAINLESS STEEL
SOLID EPOXY ENCAPSULATION

LEAD WIRES: 22 AWG, TFE INSULATED
GOLD PLATED CONTACTS

TEMPERATURE RANGE: -450° TO +450°F (-268° TO +232°C)

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

CE COMPLIANCE: EN 50081-1, EN 50082-1

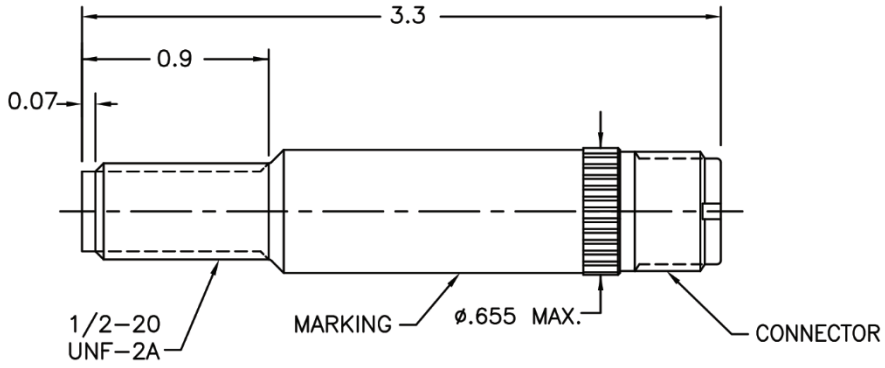
CE

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

Connector Type, 1/2 - 20

FLOWMETRICS P/N	GAUSS	PRODUCT CODE	P/N	
0011-01C-2G	150	M-MO K1/2-20x0.9/3.3"3T	0011-01C-150G	
0011-01C-4G	350	M-MO K1/2-20x0.9/3.3"3T	0011-01C-350G	
0011-01C	650	M-MO K1/2-20x0.9/3.3"3T	0011-01C	



CONSTRUCTION: HOUSING: 303 STAINLESS STEEL
SOLID EPOXY ENCAPSULATION

CONNECTOR: MS: MS3102-10SL-4P
GOLD PLATED CONTACTS

TEMPERATURE RANGE: -150° TO +330°F (-101° TO +165°C)

CE COMPLIANCE: EN 50081-1, EN 50082-1

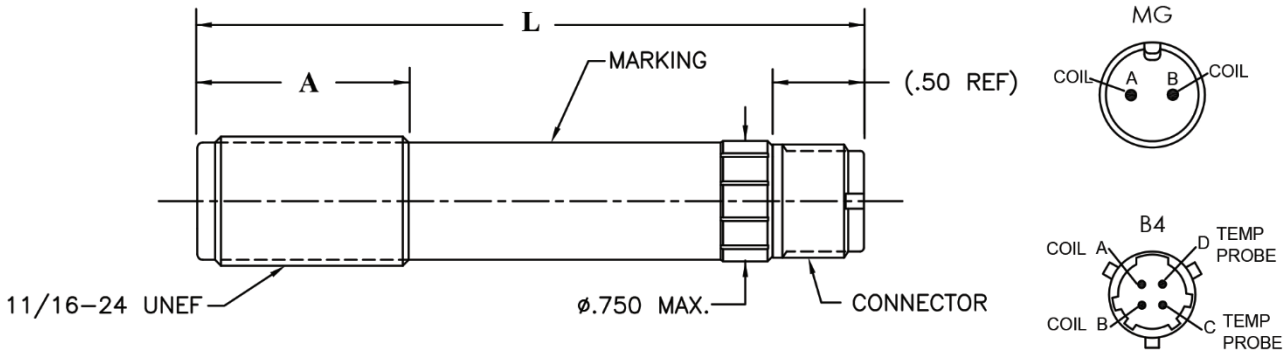
CE

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

High Temp, Connector Type, 11/16 – 24

A	L	CONNECTOR	GAUSS	PRODUCT CODE	P/N
1.3	3.5	MG	900	M-MG K11/16-24x1.3/3.5" 8HT	0024-20
1.1	2.8		350	M-MG K11/16-24x1.1/2.8" 8HT	0024-20-350G
			150	M-MG K11/16-24x1.1/2.8" 8HT	0024-20-150G
1.3	3.5	B4	150	M-RTD-B4 K11/16-24x1.3/3.5" 6HT	0024-31RTD-150G



CONSTRUCTION:
HOUSING: 303 SS
ENCAPSULATION: SOLID CERAMIC
CONNECTOR: MG (2 PIN) MS3102-10SL-4P WITH GOLD PLATED CONTACTS
B4 (4 PIN) MS3113-H8A-4P WITH GOLD PLATED CONTACTS

TEMPERATURE RANGE: 8HT: -450° to 850° F (-270° to 454° C)
-330° to 850° F (-200° to 454° C) w/RTD

6HT: -450° to 600° F (-270° to 315° C) (B4 CONNECTOR)
-330° to 600° F (-200° to 315° C) (B4 CONNECTOR) w/RTD

TEMP PROBE: RTD100, 100 ± 0.1 Ohm @ 0°C
ACCURACY: ±0.3°C OR 0.6% Temp. Coef.: 0.00385 Ohm/Ohm/°C

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP
HIGH SHOCK AND VIBRATION RESISTANCE
(IMACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

CE EN 50081-1
EN 50082-1

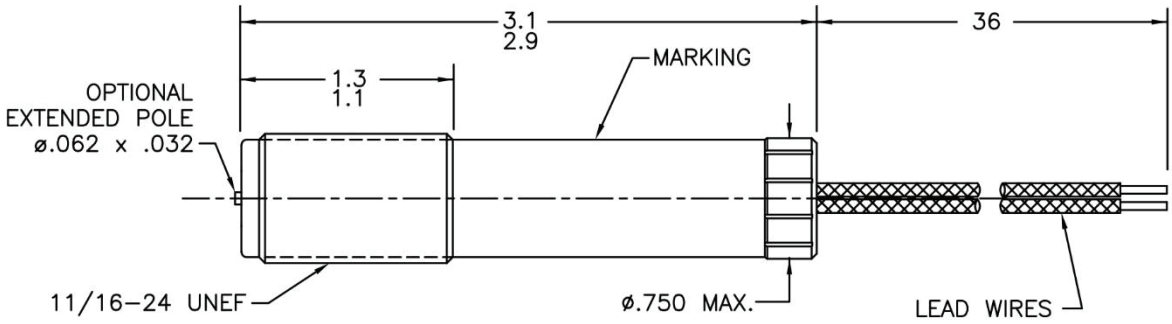
Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

High Temp, Lead Wire Type, 11/16 – 24

FACE	TYPE	PRODUCT CODE	SPEC
FLUSH	COIL ONLY	M-L36" K11/16-24x1.3/3.0" 8HT	0025-20
	W/ RTD	M-RTD-L36" K11/16-24x1.3/3.0" 8HT	0025-20RTD
W/ EXTENDED POLE	COIL ONLY	M-L36" K11/16-24x1.3/3.0" 8HT (EP62)	0025-22
	W/ RTD	M-RTD-L36" K11/16-24x1.3/3.0" 8HT (EP62)	0025-22RTD

NOTE : TO DESIGNATE GAUSS LEVEL (MAGNETIC LEVEL) OF ANY OF THE PRODUCTS ABOVE, ADD THE LEVEL TO THE P/N.
900 GAUSS VERSION P/N 0025-xx-900G
350 GAUSS VERSION P/N 0025-xx-350G
150 GAUSS VERSION P/N 0025-xx-150G



CONSTRUCTION:
HOUSING: 303 SS
ENCAPSULATION: SOLID CERAMIC
LEAD WIRES: MICA-GLASS INSULATED, 22 AWG
RTD VERSION: TWO BUNDLES OF 2 LEADS EACH

TEMPERATURE RANGE: -450° to 850° F (-270° to 454° C)
-330° to 850° F (-200° to 454° C) w/RTD

TEMP PROBE: RTD100, 100 ± 0.1 Ohm @ 0°C
ACCURACY: ±0.3°C OR 0.6% Temp. Coef.: 0.00385 Ohm/Ohm/°C

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP

HIGH SHOCK AND VIBRATION RESISTANCE
(IMACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

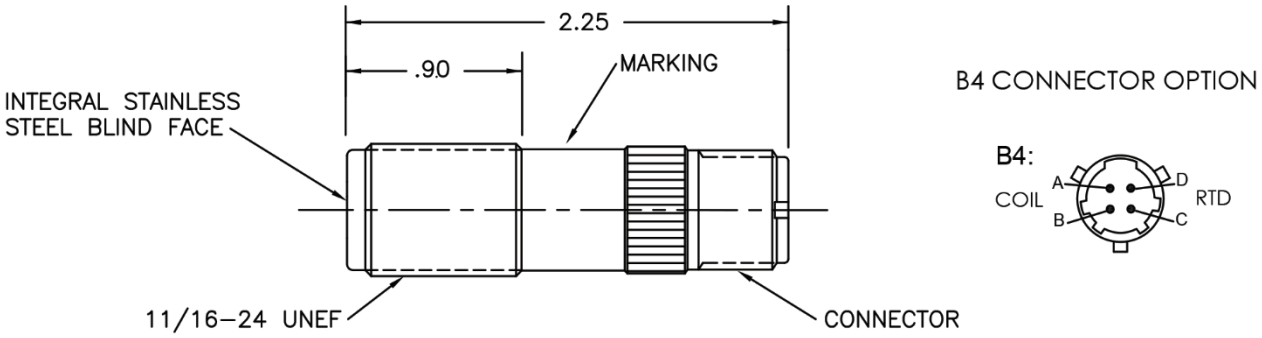
CE EN 50081-1
EN 50082-1

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

Connector Type, 11/16 – 24

GAUSS	TEMP. PROBE	TEMP. RANGE	PRODUCT CODE	P/N
900	NO	-450 to 450° F	M-MS, K 11/16-24x2.25", 5HT	0026-55152
350			M-MS, K 11/16-24x2.25", 5HT	0026-55152-350G
150			M-MS, K 11/16-24x2.25", 5HT	0026-55152-150G
	RTD100	-150 to 450° F	M-RTD-B4, K 11/16-24x2.25", 5TE	0026-5A452-150G
350			M-RTD-B4, K 11/16-24x2.25", 5TE	0026-5A452-350G



SPECIFICATION: HOUSING: 303 STAINLESS STEEL, BLINDSHELL DESIGN, HERMETICALLY SEALED, CRYOGENIC CONSTRUCTION, WITH THERMAL SHOCK RESISTANT SOLID EPOXY ENCAPSULATION

CONNECTOR: MS: MS 3102-10SL-4P, (MATE: MS 3106-10SL-4S)
GOLD PLATED CONTACTS
B4: MS 3113-H8A-4P, (MATE: MS 3116-F8-4S)
GOLD PLATED CONTACTS

TEMP. PROBE: RTD 100Ω; ACCURACY: CLASS A
±0.15 + 0.002*T (°C)]

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

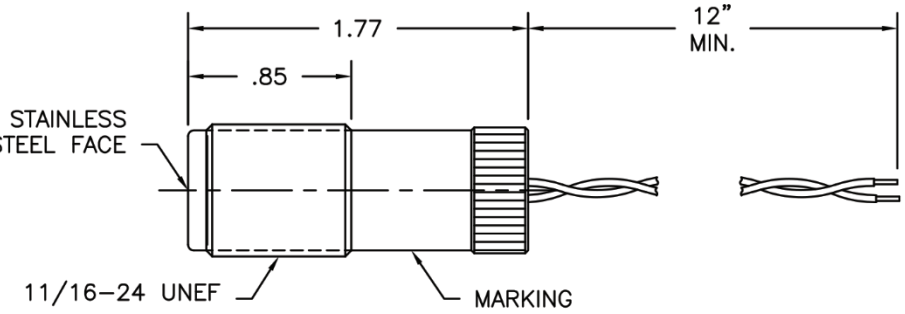
CE COMPLIANCE: EN 50081-1, EN 50082-1

CE

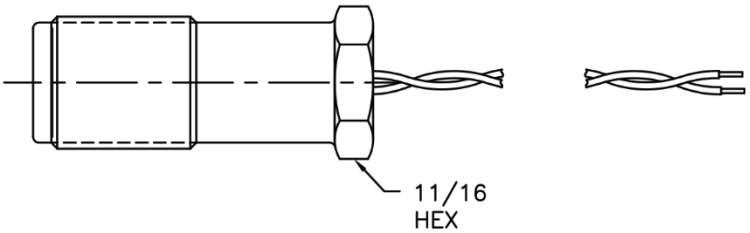
Magnetic Pick up Coil — Lead Wire Type, 11/16 – 24

HOUSING STYLE	GAUSS	PRODUCT CODE	P/N
K STYLE	900	M-L12" K11/16-24x0.9/1.8" 5HT	0027-55151
	350	M-L12" K11/16-24x0.9/1.8" 5HT	0027-55151-350G
	150	M-L12" K11/16-24x0.9/1.8" 5HT	0027-55151-150G
H STYLE	900	M-L12" H11/16-24x0.9/1.8" 5HT	0027H-55151
	350	M-L12" H11/16-24x0.9/1.8" 5HT	0027H-55151-350G
	150	M-L12" H11/16-24x0.9/1.8" 5HT	0027H-55151-150G

K STYLE



H STYLE
(SAME AS ABOVE
EXCEPT AS NOTED)



SPECIFICATION: HOUSING: 303 STAINLESS STEEL, BLINDSHELL DESIGN, CRYOGENIC CONSTRUCTION WITH THERMAL SHOCK RESISTANT SOLID EPOXY ENCAPSULATION

LEAD WIRES: WHITE, TFE 22 AWG, TWISTED

TEMP. RANGE: -450 to 450° F (-270 to 232° C)

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

CE

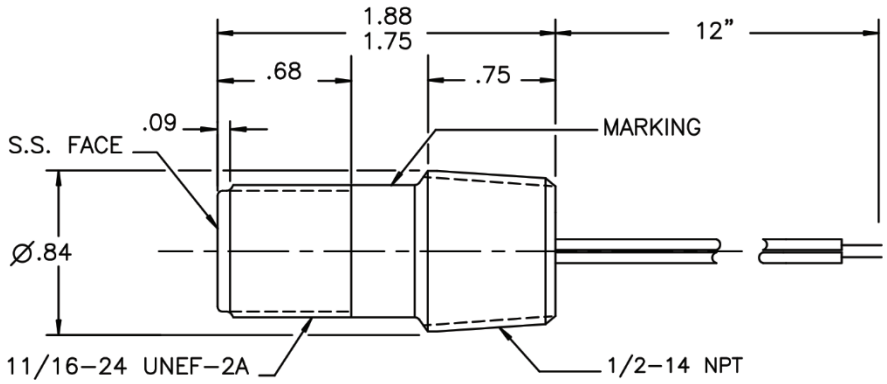
CE COMPLIANCE: EN 50081-1, EN 50082-1

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

Conduit Fitting 1/2" MNPT, 11/16-24

GAUSS	TEMP. PROBE	TEMP. RANGE	PRODUCT CODE	P/N
900	NO	-450 to +450° F	M-L12", X11/16-24x1.8", 5HT	0033-55151
350			M-L12", X11/16-24x1.8", 5HT	0033-55151-350G
150			M-L12", X11/16-24x1.8", 5HT	0033-55151-150G
	RTD100	-150 to +450° F	M-RTD100-L12", X11/16-24x1.8", 5TE	0033-5A151 -150G
350			M-RTD100-L12", X11/16-24x1.8", 5TE	0033-5A151 -150G



CONSTRUCTION: HOUSING: 303 SS
SOLID EPOXY ENCAPSULATION

COIL LEAD WIRE: TFE WHITE, 22 AWG (x2)

TEMP. PROBE: RTD100, 100 ± 0.1Ω
ACCURACY: ± 0.3°C or 0.6%
Temp. Coef.: 0.00385 Ω/Ω/°C

RTD LEAD WIRE, TFE 20 AWG
COLOR CODE:
RED (x1)
BLACK (x2) (2 WIRES ARE PROVIDED FOR LEAD WIRE RESISTANCE COMPENSATION)

SIGNAL OUTPUT: SINEWAVE: MIN: 10mVPP MAX: 10VPP
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

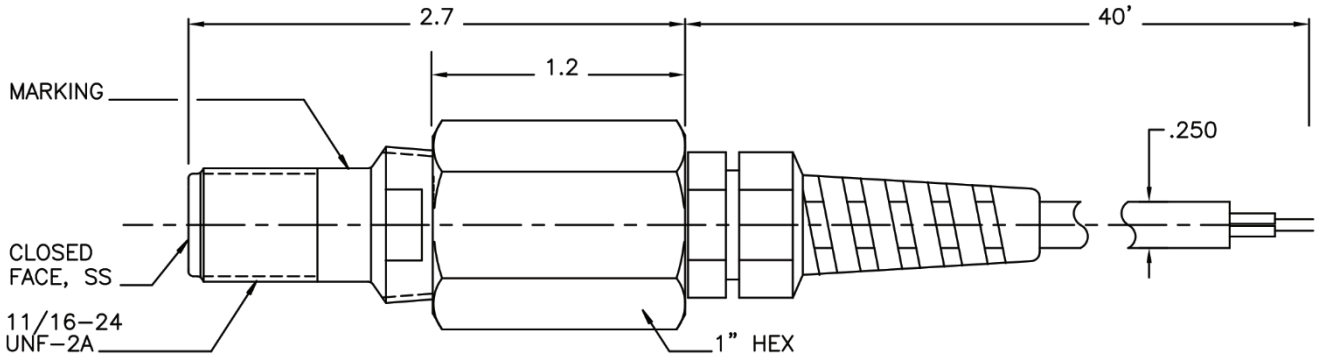
CE

CE COMPLIANCE: EN 50081-1, EN 50082-1

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil — Water Proof, 11/16 – 24

FLOWMETRICS P/N	GAUSS	TEMP. RANGE	CABLE AWG	0010-35311-2G	P/N
0033-W01	900	NO	18/2	M-LW480, XY 11/16-24x2.7", 1TE, SPCL	0033-W01
0033-W02-4G	350	NO	18/2	M-LW480, XY 11/16-24x2.7", 1TE SPCL	0033-W02-350G
0033-W03-2G	150	NO	18/2	M-LW480, XY 11/16-24x2.7", 1TE, SPCL	0033-W03-150G
0033-W04	900	RTD100	18/4	M-RTD100-LW480, XY 11/16-24x2.7", 1TE, SPCL	0033-W04



SPECIFICATIONS: HOUSING: 303 STAINLESS STEEL, W/ SOLID EPOXY ENCAPSULATION
THERMAL SHOCK RESISTANT

REPLACEABLE CABLE: NEOPRENE SERVICE CORD SVO, BLACK, 18 AWG (-40 to 90°C)
SEALED FOR UNDERWATER SERVICE, TO 100 PSI MIN., NEMA 4 & 6
HIGH SIGNAL OUTPUT
HIGH SHOCK AND VIBRATION RESISTANCE
(INPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

CE COMPLIANCE: EN 50081-1, EN 50082-1

OPTIONS: INTERNAL TEMPERATURE PROBE, SELECT:
100 Ohm RTD or 10 kOhm NTC

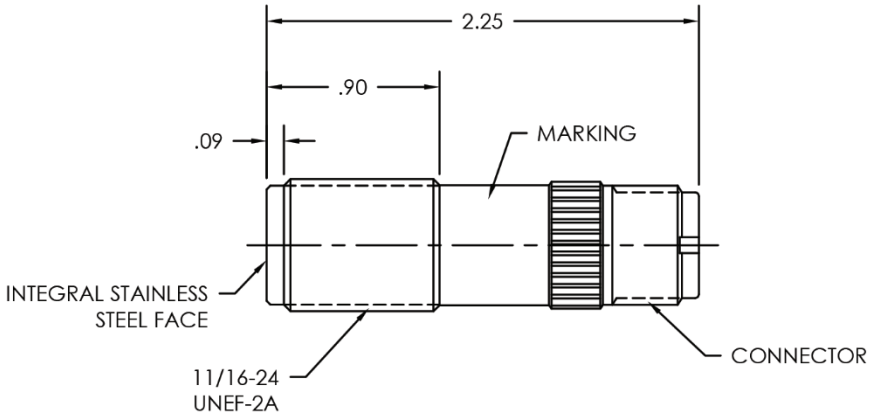
CE

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

Intrinsically Safe, Connector Type, 11/16-24

GAUSS	PRODUCT CODE	P/N
130-170	M-IS-MO K11/16-24x0.9/2.3" (2K FPS)	IS40-K307A1-150G
340-370	M-IS-MO K11/16-24x0.9/2.3" (2K FPS)	IS40-K307A1-350G



SPECIFICATIONS:

RESISTANCE: 1600 - 2100 Ω

MAGNETIZATION: PER TABLE ABOVE

CONNECTOR: MS3102A10SL-4P
2 GOLD PLATED PINS

TEMPERATURE CLASS & RANGE: **T5** -40 TO 85°C
T6 -40 TO 65°C

CONSTRUCTION: 300 SERIES STAINLESS STEEL
SOLID EPOXY ENCAPSULATION

CERTIFICATIONS:

PLEASE REFER TO INSTALLATION INSTRUCTION DOCUMENT # 85045 AND MARKING ON PRODUCT FOR APPROPRIATE CERTIFICATION INFORMATION.

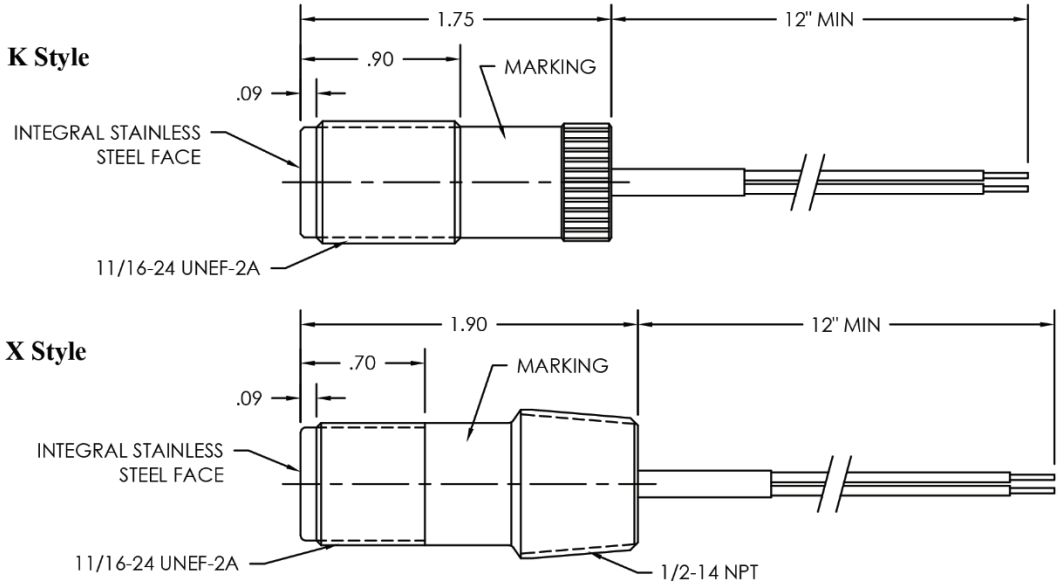
INSTALLATION

CAUTION: THIS SENSOR MUST BE INSTALLED WITH AN APPROVED BARRIER AND FOLLOW THE DETAILS SPECIFIED IN THE INSTALLATION INSTRUCTION DOCUMENT # 85045. REFER TO BULLETIN 4003 FOR RECOMMENDED BARRIERS.

Magnetic Pick up Coil

Intrinsically Safe, Lead Wire Type, 11/16-24

HOUSING STYLE	GAUSS	PRODUCT CODE	P/N
K Style (Knurl)	130 - 170	M-IS-L12" K11/16-24x0.9/1.8" (2K FPS)	IS41-K307A1-150G
	340 - 370	M-IS-L12" K11/16-24x0.9/1.8" (2K FPS)	IS41-K307A1-350G
X Style (NPT)	130 - 170	M-IS-L12" X11/16-24x0.7/1.9" (2K FPS)	IS41-X307A1-150G
	340 - 370	M-IS-L12" X11/16-24x0.7/1.9" (2K FPS)	IS41-X307A1-350G



SPECIFICATIONS:

RESISTANCE: 1600 - 2100 Ω

MAGNETIZATION: PER TABLE ABOVE

LEAD WIRES: 22 AWG, TFE INSULATED SINGLE LEADS

TEMPERATURE CLASS & RANGE: **T5** -40 TO 85°C
T6 -40 TO 65°C

CONSTRUCTION: 300 SERIES STAINLESS STEEL
SOLID EPOXY ENCAPSULATION

CERTIFICATIONS

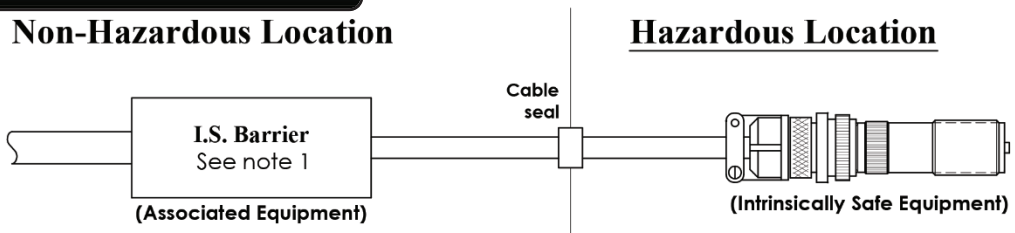
PLEASE REFER TO INSTALLATION INSTRUCTION DOCUMENT # 85045 AND MARKING ON PRODUCT FOR APPROPRIATE CERTIFICATION INFORMATION.

INSTALLATION

CAUTION: THIS SENSOR MUST BE INSTALLED WITH AN APPROVED BARRIER AND FOLLOW THE DETAILS SPECIFIED IN THE INSTALLATION INSTRUCTION DOCUMENT # 85045. REFER TO BULLETIN 4003 FOR RECOMMENDED BARRIERS.

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 · (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil — Installation Instruction, Intrinsically Safe



Vmax, Ui	≥	Uo, Voc or Vt
Imax, Ii	≥	Io, Isc or It
Co or Ca	≥	Ci + Cc
Lo or La	≥	Li + Lc
Pt or Po	≤	Pi

Vmax, Ui = 30 Vdc
Imax, Ii = 100 mA
Ci = 0 µF
Li = 0 mH max.
Pmax, Pi = 0.66 watts

Certifications for IS40A & IS41A

ATEX: II 1 G Ex ia IIC T6...T4 Ga
FM08ATEX0066X

IECEx: Ex ia IIC T6...T4 Ga
IECEx FMG 16.0003X
T4 @ -40°C ≤ T_{amb} ≤ +100°C
T5 @ -40°C ≤ T_{amb} ≤ +85°C
T6 @ -40°C ≤ T_{amb} ≤ +65°C

CE: Compliance with
EN50081-1, EN50082-1

Certifications for IS40A & IS41A

USA: Intrinsically Safe
Class I, II, III, Division 1
Group ABCDEFG T6...T5
Class I, Zone 0, AEx ia IIC T6...T5

Canada: Intrinsically Safe
Class I, Division 1
Group ABCD T6...T5
Class I, Zone 0, Ex ia IIC T6...T5
T5 @ -40°C ≤ T_{amb} ≤ +85°C
T6 @ -40°C ≤ T_{amb} ≤ +65°C

NOTES:

1. Barrier must satisfy the electrical requirements listed above.
Barrier manufacturer's installation drawing must be followed when installing the system.
For US installations, the barrier configuration must be FM Global approved.
See Bulletin 4003 for recommended barriers.

2. Installation to be in accordance with the following standards:
for US installations follow ANSI/ISA RP12.6 and the National Electrical Code ANSI/NFPA 70,
for Canadian installations follow the Canadian Electrical Code,
for ATEX installations follow EN 60079-14,
for IECEx installations follow IEC 60079-14.

3. Control Equipment connected to associated equipment must not use or generate more than 250V.

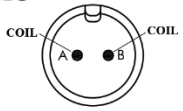
4. Sensor must be mounted as part of a bonded structure.

5. Sensor should be de-energized before separating connector and sensor.

6. Lead Wires: Black and/or White

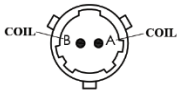
CONNECTOR:

MO



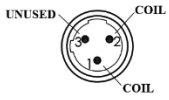
Mate: Amphenol
MS3106A10SL-4S

B



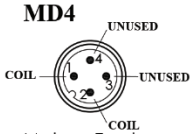
Mate: Amphenol
MS3116F8-2S

MC3



Mate: Turck
KB 3T

MD4



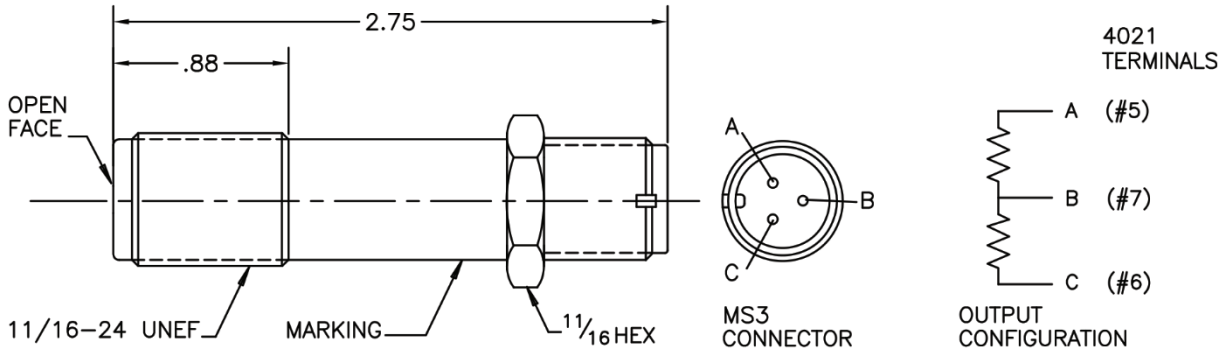
Mate: Turck
RK 4.4T

Flowmetrics, Inc.
"Where Quality is Measurable"
9201 Independence Avenue
Chatsworth, CA 91311, USA
http://www.flowmetrics.com
(818) 407-3420 • (800) 356-6387
Fax (818) 700-1961

Magnetic Pick up Coil

Noise Cancellation, Connector Type, 11/16-24

FLOWMETRICS P/N	GAUSS	PRODUCT CODE	P/N
0437-01	900	M-NC-MS3, H 11/16-24x2.8", 5HT	0437-01
0437-01-4G	350	M-NC-MS3, H 11/16-24x2.8", 5HT	0437-01-350G
0437-01-2G	150	M-NC-MS3, H 11/16-24x2.8", 5HT	0437-01-150G



THIS SPECIAL PICKUP IS DESIGNED TO WORK IN VERY NOISY ENVIRONMENTS AND MUST BE USED IN CONJUNCTION WITH THE 4021 TYPE II SERIES PREAMP.

CONSTRUCTION: HOUSING: 303 SS
SOLID EPOXY ENCAPSULATION

CONNECTOR: MS-3102-10SL-3P
MS-TYPE, 3 PIN, SEALED
GOLD PLATED CONTACTS

TEMPERATURE RANGE: -450° to 450° F (-270° to 232° C)

CE COMPLIANCE: EN 50081-1, EN 50082-1

CE