

PHILTEC

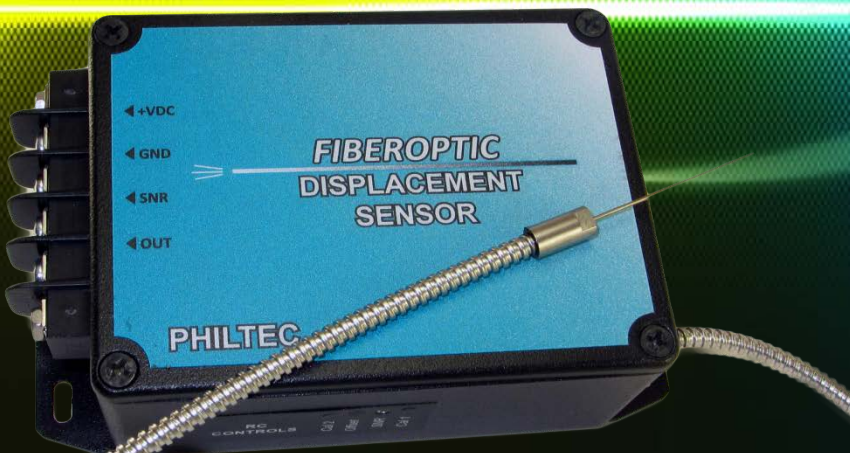
FIBEROPTIC SENSORS



来自美国的-非接触式光纤位移传感器

型号总表及选配方案手册

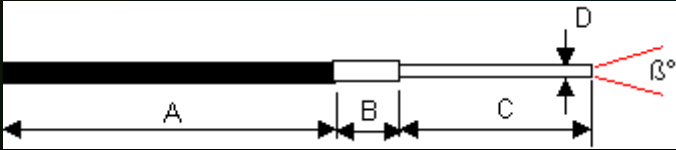
国内指定代理商
优易能(北京)科技有限公司
电话: 13901106947



优易能(北京)科技有限公司(中国)
纳尔特国际有限公司(香港)

电话: 010-5719 1407 手机: 139 0110 6947

D系列模拟输出传感器尺寸



型号	A 长度 mm	A 直径 mm	B长度 mm	B 直径 mm	C 长度 mm	D 直径 mm	光斑直径 mm	$\beta(^{\circ})$
D100	910	5.1	12.7	6.35	76.2	3.18	2.54	30
D125	910	5.8	12.7	6.35	76.2	3.96	3.18	30
D169	910	6.6	15.2	7.87	76.2	4.76	4.32	30
D170	910	6.6	15.2	7.87	76.2	4.76	4.32	25
D171	910	6.6	15.2	7.87	76.2	4.76	4.32	25
D240	910	8.6	19.1	9.53	76.2	7.92	6.1	25

D系列模拟输出传感器测量参数

型号	探头直径 mm	光斑类型	量程 mm	线性量程 mm	分辨率 (微米) 200KHz	分辨率 (微米) 20KHz	分辨率 (微米) 100Hz
D100	3.18	圆形	10	2.3	3.8	1.9	0.2
D125	3.96	圆形	15	3.3	1.8	0.9	0.13
D169	4.75	圆形	20	4	2.5	1.3	0.5
D170	4.75	圆形	30	6	7.5	3.8	0.6
D171	4.75	圆形	50	5.7	8.8	4.4	0.6
D240	7.92	圆形	76	16	16	8	1

D系列传感器尺寸图

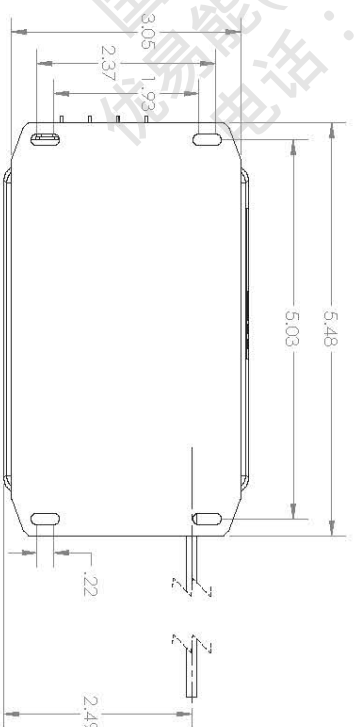
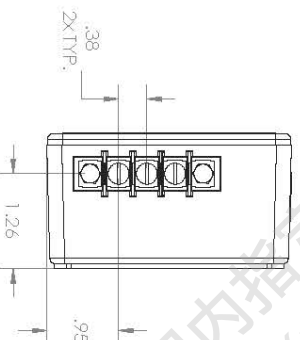
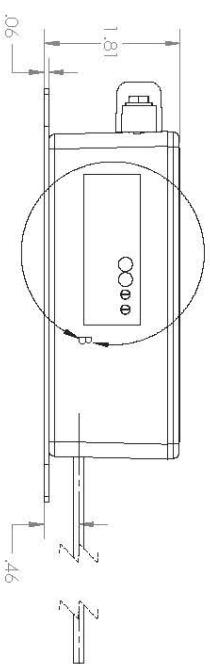
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DETAIL B
SCALE 1:1

COARSE & FINE
GAIN CONTROLS



FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:			
ANGULAR: MAX CHIT BEND .25°			
ONE PLACE DECIMAL .100			
TWO PLACE DECIMAL .010			
THREE PLACE DECIMAL .005			
DRAWING DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.			
INTERFERE DIMENSIONS AND CLEARANCES PER ANSI Y14.5M - 1994 (2004)			
DO NOT SCALE DRAWING			
THIRD ANGLE PROJECTION			
PART #/CND FILE:			
D-STD - Rev A			
REV			
A			

PHILTEC

FIBER OPTIC SENSORS

NAME DATE

CDR 1/23/2018

CHECKED CDR 1/23/2018

DESCRIPTION:

SENSOR AMPLIFIER, ANALOG

D - STANDARD

PHILTEC INC.
ANNAPOLIS, MD 21403

DESCRIPTION:

SENSOR AMPLIFIER, ANALOG

D-STD - Rev A

REV

A

SHEET 1 OF 1

D系列传感器尺寸图

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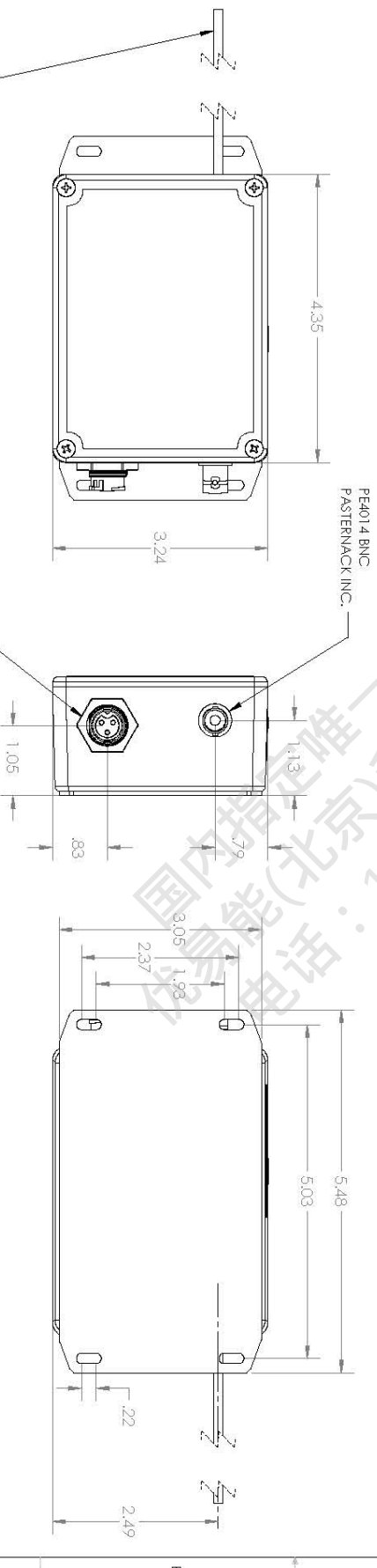
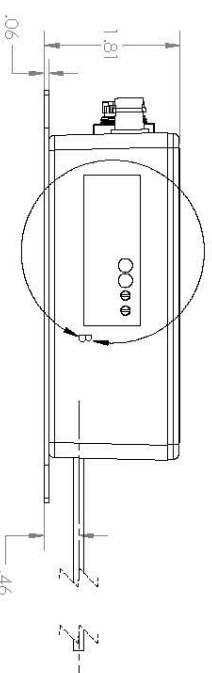
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DETAIL B
SCALE 1 : 1

COARSE & FINE
GAIN CONTROLS



FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

EN3P3X
SWITCHCRAFT INC.

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:			
ANGULAR: MAX CHIT BEND .25°			
ONE PLACE DECIMAL .100			
TWO PLACE DECIMAL .010			
THREE PLACE DECIMAL .005			
DRAWING DIMENSIONS APPLY TO ALL PARTS AND SUBASSEMBLIES UNLESS OTHERWISE SPECIFIED			
INTERFERENCE DIMENSIONS PER ANSI Y14.5M - 1994 (2004)			
PHILTEC		PHILTEC INC.	
FIBER OPTIC SENSORS		SENSOR AMPLIFIER, ANALOG	
DRAWN	NAME	DATE	REV
CHECKED	CDR	1/23/2018	A
DO NOT SCALE DRAWING		PART #/CWD FILE:	
THIRD ANGLE PROJECTION		D-Q - Rev A	
DWG. FILE:		D-Q - Rev A	
SHEET 1 OF 1		SHEET 1 OF 1	

RC系列模拟输出传感器尺寸



型号	A 长度 mm	A 直径 mm	B长度 mm	B 直径 mm	C 长度 mm	D 直径 mm	光斑直径 mm
RC20	910	5.1	12.7	6.35	38	0.81	Ø 0.51
RC22	910	3.3	12.7	4.31	38	0.81	Ø 0.51
RC32	910	5.1	12.7	4.31	38	1.27	Ø 0.81
RC59	910	5.2	12.7	6.35	38	1.83	Ø 1.52
RC60	910	5.2	12.7	6.35	38	1.83	Ø 1.52
RC61	910	5.2	12.7	6.35	38	1.83	Ø 1.52
RC62	910	5.1	12.7	6.35	38	4.75	1.57 x 3.2
RC63	910	5.1	12.7	6.35	38	4.75	1.57 x 3.2
RC100	910	5.8	12.7	6.35	38	3.18	Ø 2.54
RC171	910	6.6	15.9	7.93	38	4.75	Ø 4.34
RC225	910	6.86	38.1	7.14	与B一体	7.14	Ø 5.72
RC290	910	6.6	19.1	10.3	38	7.92	Ø 7.44

RC系列模拟输出传感器测量参数

型号	探头直径 mm	光斑类型	量程 mm	线性量程 mm	分辨率 (微米) 200KHz	分辨率 (微米) 20KHz	分辨率 (微米) 100Hz
RC20	0.81	圆形	1.65	0.36	1.2	0.6	0.2
RC22	0.81	圆形	3	1	4.8	2.4	0.9
RC32	1.27	圆形	2	0.75	2	1	0.25
RC59	1.83	圆形	2	0.75	2	1	0.25
RC60	1.83	圆形	3.2	1	3.6	1.7	0.3
RC61	1.83	圆形	5.1	1.4	6.6	3.3	1.3
RC62	4.75	矩形	2	0.75	1.8	0.9	0.25
RC63	4.75	矩形	4	1.2	4	2	0.7
RC100	3.18	圆形	5.1	2	3.2	1.8	0.8
RC171	4.75	圆形	12.7	3.8	11	5.6	1.3
RC225	7.14	圆形	25.4	3.4	60	30	5
RC290	7.92	圆形	40	10	136	68	15

RC系列传感器尺寸图

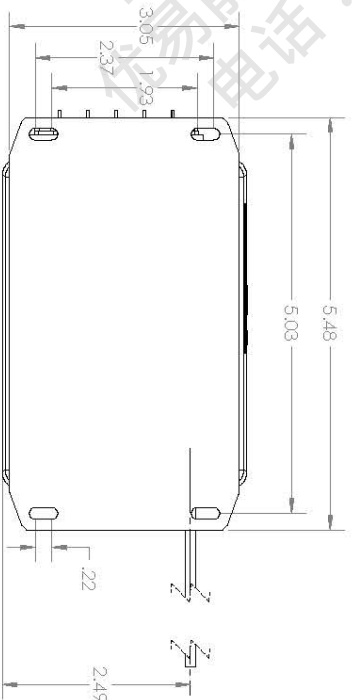
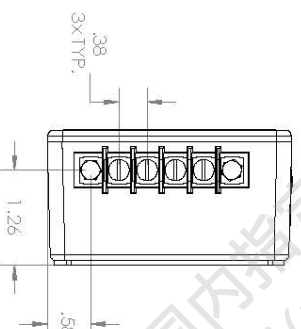
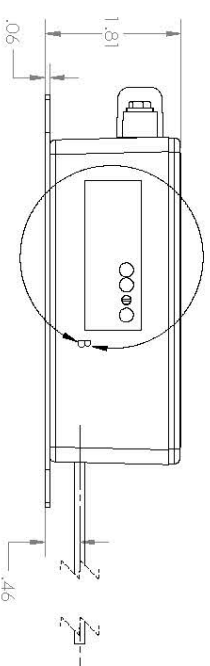
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DETAIL B
SCALE 1:1

SNR CONTROL



FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:		PHILTEC		PHILTEC INC., ANALOG, MD 2109	
ANGULAR: MAX CHIT BEND .25° ONE PLACE DECIMAL .100 TWO PLACE DECIMAL .010 THREE PLACE DECIMAL .005		FIBER OPTIC SENSORS		DESCRIPTION: SENSOR AMPLIFIER, ANALOG RC - STANDARD	
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		DR/AMM CDR 1/23/2018		RC-STD - Rev D	
		CHECKED CDR 1/23/2018		REV	
DO NOT SCALE DRAWINGS				D	
INTER-PILE DIMENSIONS AND SPACING: 1/2" DIA. - 1/2" DIA. (2020-04)		HARD ANGLE PRODUCTION		DWG. FILE: RC-STD - Rev D	
				SHEET 1 OF 1	

RC系列传感器尺寸图

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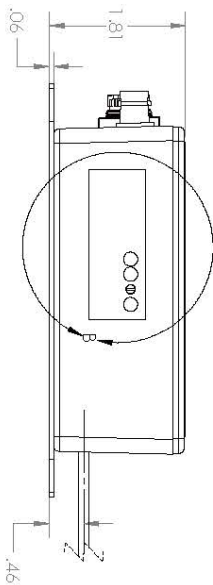
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DETAIL B
SCALE 1 : 1

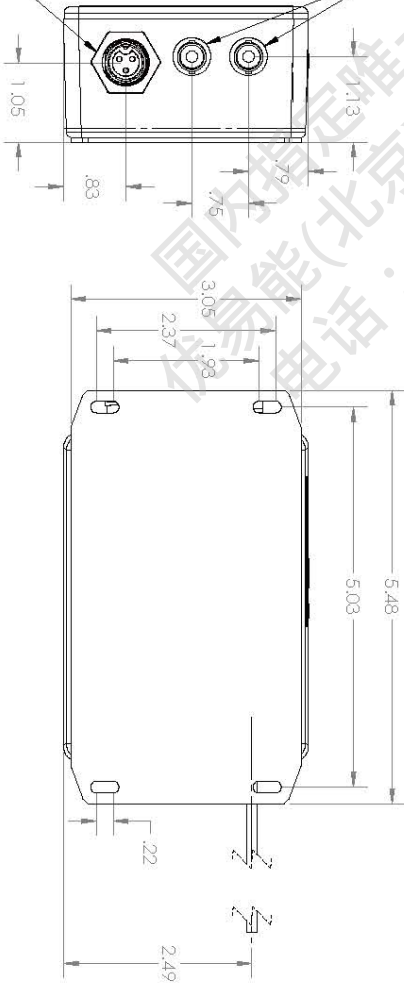
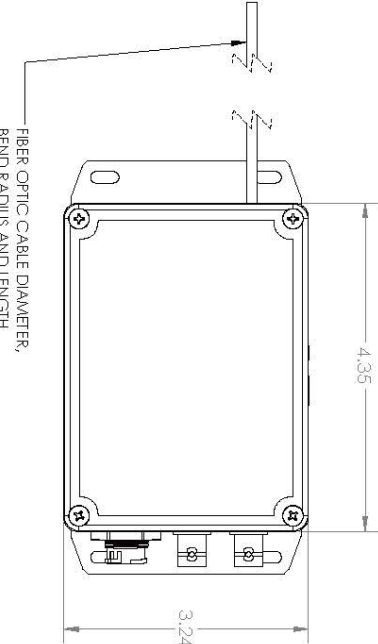
SNR CONTROL



PE4014 BNC
PASTERNAK INC.
2X TYP.

FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

ENDPFX
SWITCHCRAFT INC.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MAX CHIT' BEND .37 ONE PLACE DECIMAL .±.01 TWO PLACE DECIMAL .±.005 THREE PLACE DECIMAL .±.005		PHILTEC FIBER OPTIC SENSORS DESCRIPTION: ANALOG QLS, MD 21492	
DRAWN: NAME: DATE: 1/23/2018		CHECKED: CDR: 1/23/2018	
PART #/CAD FILE: RC-Q		REV: G	

NOTES: (UNLESS OTHERWISE SPECIFIED)
1. NONE



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数字输出传感器尺寸图

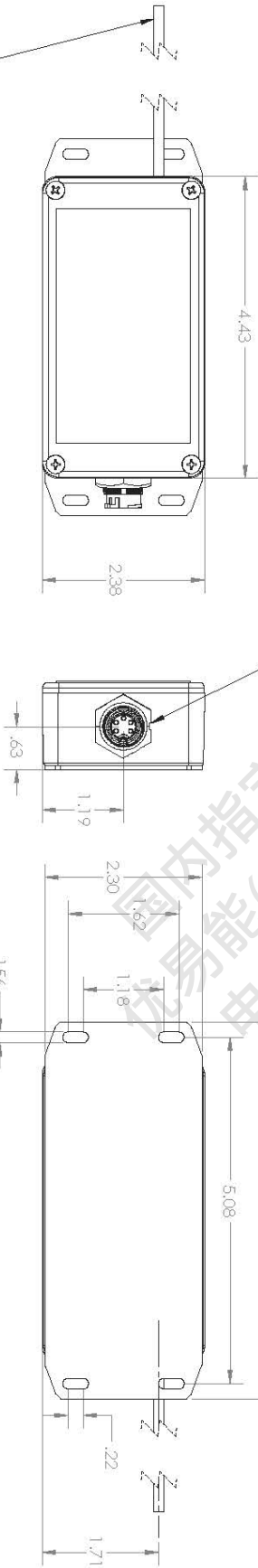
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miniDMS-RS232输出

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EN3P5FX
SWITCHCRAFT INC.



FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

REV.		DESCRIPTION		DATE	APPROVED
D		INITIAL RELEASE OF SOLID WORKS MODEL & DRAWING.		1/23/2018	CDR

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MAX. CHITTY BEND .37 ONE PLACE DECIMAL: .400 TWO PLACE DECIMAL: .005 THREE PLACE DECIMAL: .005		PHILTEC FIBER OPTIC SENSORS		PHILTEC INC. ANNAPOLIS, MD 21403	
DRAWING AND DIMENSIONAL REVISIONS ARE INDICATED BY CIRCLES AND DIMENSIONAL REVISIONS ARE INDICATED BY CIRCLES AND DIMENSIONAL REVISIONS ARE INDICATED BY		DRAWN: NAME DATE 1/23/2018		DESCRIPTION: SENSOR AMPUTHER, DIGITAL miniDMS	
CHECKED: CDR 1/23/2018		DO NOT SCALE DRAWING		PART #/CAD FILE: miniDMS - Rev D	
INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M - 1994 (2004)		THIRD ANGLE PROJECTION		DWG. FILE: miniDMS - Rev D	
				REV D	

数字输出传感器尺寸图

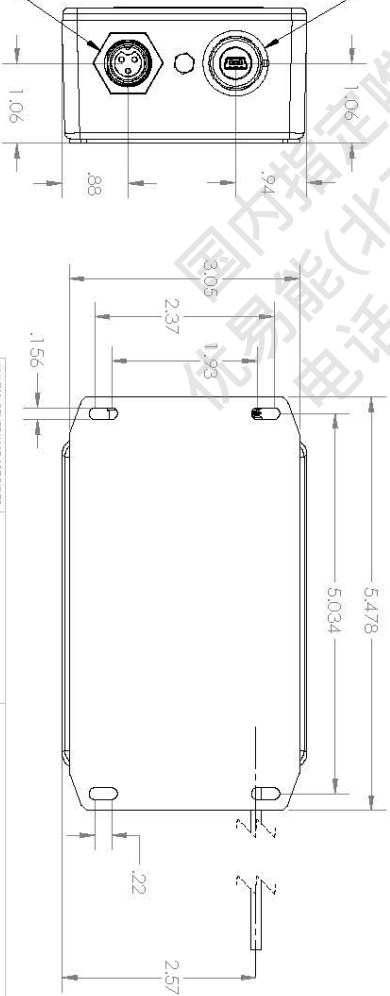
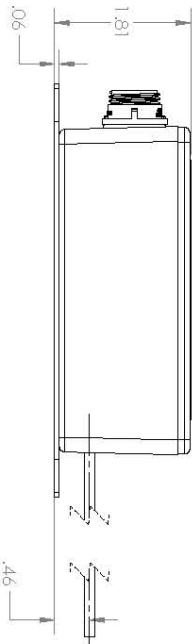
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USB数字输出

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PX0443
BULGIN (DIGIKEY P/N: 708-1235-ND)



FIBER OPTIC CABLE DIAMETER,
BEND RADIUS AND LENGTH
DETERMINED BY SENSOR SELECTION.

ENDPSEX
SWITCHCRAFT INC.

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

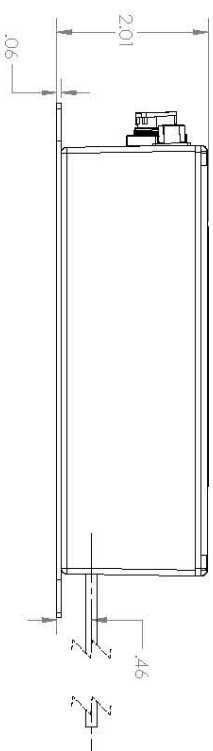
REV.		REVISIONS		DATE		APPROVED	
F		INITIAL RELEASE OF SOLID WORKS MODEL & DRAWING.		1/23/2018		CDR	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR DIMENSIONS: BEND .37 ONE PLACE DECIMAL: .010 TWO PLACE DECIMAL: .005 THREE PLACE DECIMAL: .005 DRAWING DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. FIBER OPTIC CABLE DIAMETER, BEND RADIUS AND LENGTH DETERMINED BY SENSOR SELECTION.				PHILTEC INC. ANNAPOLIS, MD 21403			
FIBER OPTIC SENSORS				DESCRIPTION: SENSOR AMPIFIER, DIGITAL			
DRAWN: NAME: DATE: 1/23/2018				PART #/CAD FILE: MUDMS - Rev F			
CHECKED: CDR 1/23/2018				REV: F			
DO NOT SCALE DRAWING				DWG. FILE: MUDMS - Rev F			
INTERFET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M - 1994 (2004)				SHEET 1 OF 1			

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双通道放大器

3			2			1		
REVISIONS								
REV.	DESCRIPTION			DATE	APPROVED			
A	INITIAL RELEASE OF SOLID WORKS MODEL & DRAWING.			1/23/2018	CDR			



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. NONE

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:		PHILTEC PHILTEC INC. ANNAPOLIS, MD 21409	
ANGULAR: MAX CH1 REID: 33° ONE PLACE DECIMAL: ±0.10 TWO PLACE DECIMAL: ±0.05 THREE PLACE DECIMAL: ±0.05		DESCRIPTION: SENSOR AMPLIFIER, DIGITAL 2DMS	
FINISH: ANNEAL, STAINLESS PROTECTIVE COATING: POLYURETHANE, ULT HIGH TEMPERATURE RESISTANT		PART #/CAD FILE:	
INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5 - 1994 (FIG. 1)		DWG. FILE: 2DMS - Rev A	
THIRD ANGLE PROJECTION		SHEET 1 OF 1	

选配方案清单1

序号	D系列	RC系列	选项	关键词	描述
1	√	√	A	放大器	提供低电子漂移和高精确度的温度稳定器
2	√	√	B	光纤连接头	通过直插式连接器接头可连两根或更多的光纤线缆。 (D6, RC12不适用)
3	√	√	B1	光纤连接头	传感器本体安装直插式连接器接头可连接光纤线缆。 (D6, RC12不适用)
4	√	√	Bv1	真空连接器	单通道真空连接器，可承受10 E-7托的压力，包含超高压接头。(D6, RC12不适用)
5	√	N/A	Bv2	真空连接器	用在D型传感器的双端口单通道真空连接法兰，可承受10 E-11托的压力。(D6 不适用) *选项B需同时使用
6	N/A	√	Bv3	真空连接器	用在RC型传感器的3端口单通道真空连接法兰，可承受10 E-11托的压力。(RC12 不适用) *选项B需同时使用
7	√	√	BvF	真空连接器	多通道的高真空条件下的集成连接器，可承受10 E-7托的压力。提供熔断纤维的连接器和多通道真空法兰装置能够容纳8个D型或5个RC型传感器。(D6, RC12 & RC20 不适用) *选项B需同时使用
8	√	√	---		光纤线缆：PVC保护层，防碰撞，抗冲击，防水；不耐高温高压或电磁场。适用在105摄氏度范围内。
9	√	√	C1	光纤线缆	不锈钢包裹，防碰撞，抗冲击，不防水，适用在850摄氏度范围内。
10	√	√	C2	光纤线缆	硅胶管子包裹的光纤电缆，耐高温高压，抗核磁干扰，防生化，柔软的，防水，不防破坏，适用在850摄氏度范围内。
11	√	√	C3	光纤线缆	硅胶管包裹聚四氟乙烯的光纤电缆。适用在200摄氏度范围内。适用于短传感器探头。
12	√	√	C4	光纤线缆	全塑胶材质包裹的光纤电缆。防水，重量轻，适用于电磁场环境，适用在85摄氏度范围内。
13	√	√	C5	光纤线缆	聚四氟乙烯包裹不锈钢，可屏蔽水蒸气干扰，防水，防破坏，适用在260摄氏度范围内。
14	√	√	C6	光纤线缆	PVC材质包裹尼龙材质的光纤电缆，防水，防碰撞，抗冲击，抗电磁干扰，适用在105摄氏度范围内。
15	√	√	C7	光纤线缆	聚四氟乙烯管包裹的光纤电缆，耐高温高压，可屏蔽水蒸气干扰，抗电磁场、核磁干扰，防水，适用在260摄氏度范围内。
16	√	√	C8	光纤线缆	聚氯乙烯塑包裹的光纤电缆，非常柔软，防水，抗电磁场、核磁干扰，不耐高温高压，适用在105摄氏度范围内。
17	√	√	C9	光纤线缆	煅烧材质不锈钢管，防水，适用在850摄氏度范围内。
18	√	√	C10	光纤线缆	硅胶材质包裹不锈钢线缆，防水，防破坏，适用在200摄氏度范围内。
19	√	√	C11	光纤线缆	聚烯烃热缩管，可屏蔽水蒸气干扰，具有柔软性，适用在150摄氏度范围内。
20	√	√	C12	光纤线缆	聚烯烃热包裹不锈钢，可屏蔽水蒸气干扰，抗破坏，具有柔软性，适用在150摄氏度范围内。

选配方案清单2

序号	D系列	RC系列	选项	关键词	描述
21	√	√	E1	光纤线缆	扩展长度的光纤电缆（有些型号的极限长度是3米，有些型号的极限长度是14.9米）所有 < Ø 2.5 mm 的光纤线缆
22	√	√	E2	光纤线缆	扩展长度的光纤电缆（有些型号的极限长度是3米，有些型号的极限长度是14.9米）所有 > Ø 2.5 mm 的光纤线缆
23	√	√	Fv1	真空连接器	低真空的连接装置，可承受 10 E-4托的压力. 在光缆线缆上提供压力连接器、压力帽，真空端提供不锈钢缠绕的线缆护套
24	√	√	Fv2	真空连接器	低真空的连接装置，与Fv1一致，在光纤线缆上提供 Ø 0.250" X 3" L型固体
25	√	√	Fv3	真空连接器	低真空的连接装置，与Fv1一致，在光纤线缆上提供 Ø 0.500" X 3" L型固体
26	√	√	G1	放大器输出	附加的输出，直流耦合的10倍增益和可调整的直流偏移
27	√	√	G2	放大器输出	附加的输出，直流耦合的10倍增益
28	√	N/A	H1	放大器输出	为D型传感器使用的高频率放大器，带宽可以达到200 KHZ
29	√	N/A	H2	放大器输出	为D型传感器使用的高频率放大器，带宽可超过200 KHZ 至1MHz
30	N/A	√	H3	放大器输出	为RC型传感器使用的高频率放大器，带宽可以达到350KHZ
31	√	N/A	+H1	放大器输出	为D型使用的额外的输出，带宽可以达到200 KHZ
32	√	N/A	+H2	放大器输出	为D型使用的额外的输出，带宽可以达到1MHZ
33	N/A	√	+H3	放大器输出	为RC型使用的额外的输出，带宽可以达到350KHZ
34	√	√	L	放大器输出	低频率放大器 (< 20 KHz), 100 Hz 标准
35	√	√	+L	放大器输出	增加低频率的输出，带宽 (< 20 KHz), 100 Hz 标准
36	√	√	M	放大器输出	传感器本体带数字显示-直流电压
37	N/A	√	N	放大器	低干扰放大器（仅适用RC系列传感器）
38	√	√	O	放大器	可调整的直流偏移
39	√	√	P	放大器	在规定计算范围的多项式曲线拟合，提升线性量程至全量程
40	√	√	Q	放大器输出	可连接AC/DC电源适配器 和 BNC输出

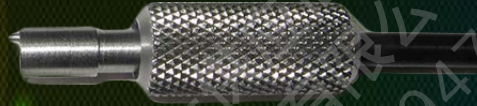
选配方案清单3

序号	D系列	RC系列	选项	关键词	描述
41	√	√	R1	放大器	屏蔽环境光源
42	√	√	R2	放大器	蓝光传感器，470纳米
43	√	√	T1	传感器探头定制	可定制直线传感器探头
44	√	√	T2	传感器探头定制	可定制含有螺纹的传感器探头
45	√	√	T3	传感器探头定制	可定制非金属的传感器探头
46	√	√	T4	传感器探头定制	可定制直角传感器探头
47	√	√	T5	传感器探头定制	可定制正方形的直角探头，无螺纹
48	√	√	T6	传感器探头定制	可定制正方形的直角探头，含螺纹
49	√	√	T7	传感器探头定制	可按客户要求进行定制
50	√	√	T8	传感器探头定制	可定制耐350摄氏度的探头
51	√	√	T9	传感器探头定制	可定制耐480摄氏度的探头
52	√	√	T10	传感器探头定制	可定制耐高于480摄氏度的探头（石英光纤）
53	√	√	T11	传感器探头定制	可定制非磁性传感器探头（铜或铝材质）
54	√	√	T12	传感器探头定制	镍合金传感器探头（低膨胀系数）
55	√	√	V	放大器	放大器提供0-10伏电压输出
56	√	√	W Wd	传感器探头	适用在高压力和真空环境下的传感器探头玻璃/蓝宝石玻璃的传感器探头
41	√	√	R1	放大器	屏蔽环境光源
42	√	√	R2	放大器	蓝光传感器，470纳米
43	√	√	T1	传感器探头定制	可定制直线传感器探头
44	√	√	T2	传感器探头定制	可定制含有螺纹的传感器探头

选配部分照片



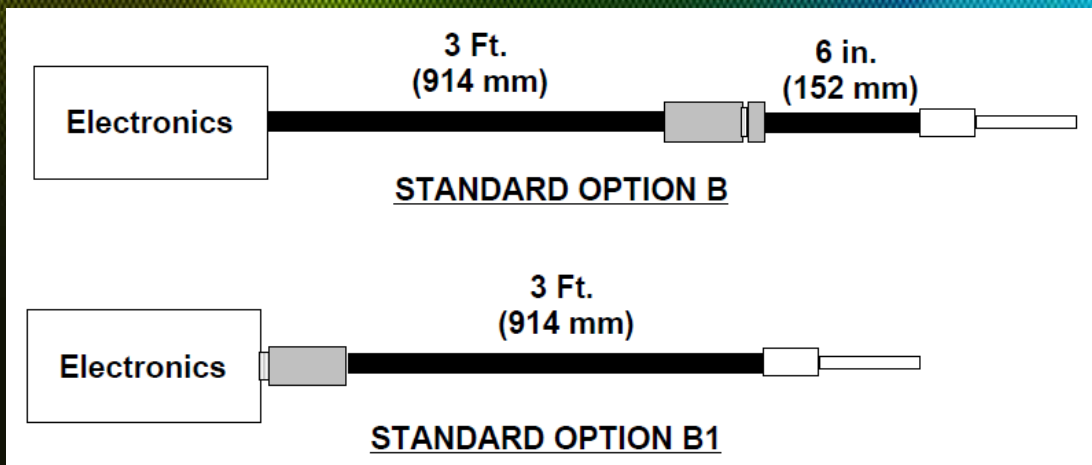
Option Bv1

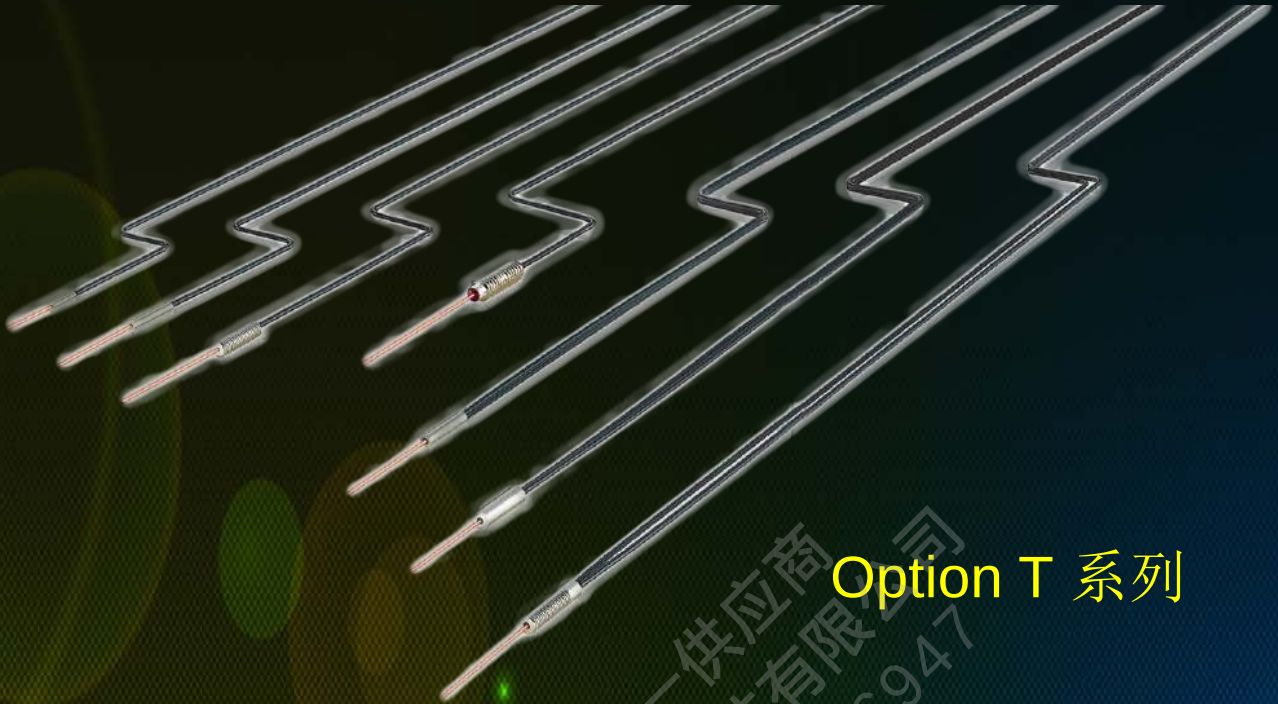


Option B



Option B





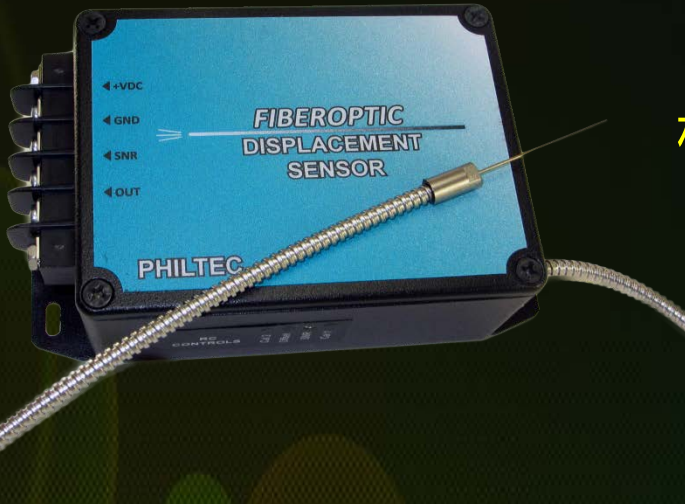
Option T 系列



Option Fv1



标准模拟输出



Option Q



Option A with Digital sensor

Option M



AMPLIFIER BANDWIDTH OPTIONS

The standard sensor bandwidth is DC - 20 KHz

Options are available for higher or lower bandwidths as well as for additional outputs on one sensor amplifier. Available bandwidth options are summarized in the table below.

选配代码	描述
H1	Provides D models with a High Bandwidth Amplifier, DC-200 KHz
H2	Provides D models with a High Bandwidth Amplifier, above 200 KHz. Bandwidths up to 2 MHz (some models) can be specified.
H3	Provides RC models with a High Bandwidth Amplifier, DC - 200 KHz. Bandwidths up to 350 KHz can be specified.
+H1	Designating +H1 provides a D sensor amplifier with two outputs: standard DC-20 KHz and a wideband output, DC-200 KHz.
+H2	Designating +H2 provides a D sensor amplifier with two outputs: standard DC-20 KHz and a wideband output as high as 2 MHz.
+H3	Designating +H3 provides a RC sensor amplifier with two outputs: standard DC-20 KHz and a wideband amplifier, DC-200 KHz or higher.
L	Equips a sensor with a low bandwidth amplifier, DC-100 Hz. Bandwidths as low as 10 Hz can be specified.
+L	Equips a sensor with two outputs: standard DC-20KHz and a low frequency output, DC-100 Hz.