

FHTA19 series

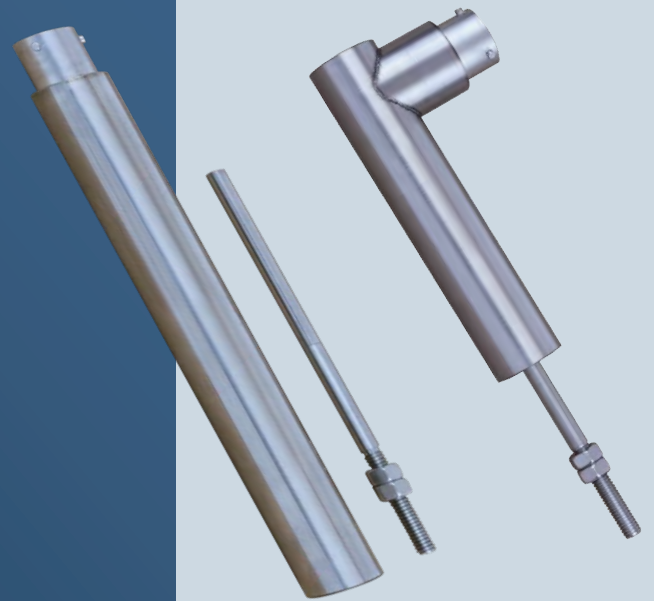
High temperature LVDT

Applications

- Scraper position feedback
- Hydraulic cylinder positioning
- Steam valve positioning
- Power generation
- Other applications for harsh environments

Features

- Range: ± 3 to ± 250 mm
- Max. temperature : $+200^{\circ}\text{C}$
- Linearity error: $\leq \pm 0.25\%$ (FS)
- Aviation connector
- Protection Rating: IP-68



ABEK FHTA19 series high temperature sealed AC LVDT position sensors are widely used in a variety of precise measurement applications. This series is produced with special materials and processes, and can work stably at high temperatures up to 200°C .

The FHTA19 series sensors are available in ranges from 6mm to 500mm and are characterized by high resolution, good repeatability and low latency.

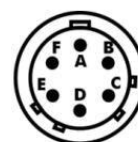
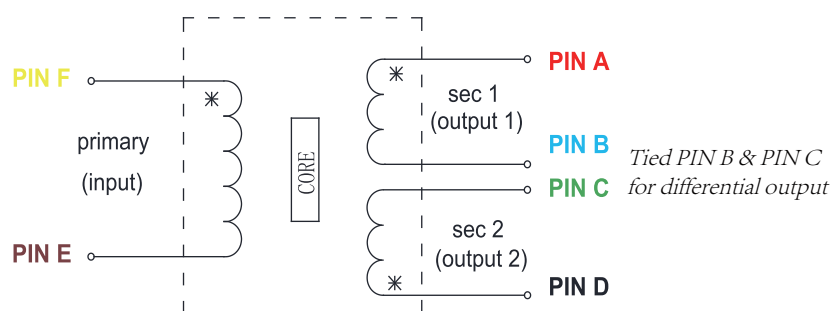
The FHTA19 series offers a variety of technical specifications for customers. In addition to the options provided in the selection table, it can also be customized according to customer requirements, including radiation resistance, Teflon (PTFE) core bushing, thread specifications, wiring methods, connector types, and other mechanical structure needs.

In order to facilitate the actual application of the customer, we also supply a variety of accessories to match the LVDT, such as the related mounting fixtures or blocks, signal conditioning device, cables and other accessories, please contact us for detailed information.

General Specifications

Parameters	Specifications
Input voltage	3V rms, $\pm 10\%$ (rated)
Input frequency	2.5 to 3.0 kHz
Linearity error	$< \pm 0.25\%$ of FRO
Repeatability error	$< 0.01\%$ of FSO
Hysteresis error	$< 0.01\%$ of FSO
Operating temperature	-55°C to + 200°C
Thermal coefficient	-0.02%/°C (rated)
Vibration tolerance	20g, 2 K Hz

Wiring Information

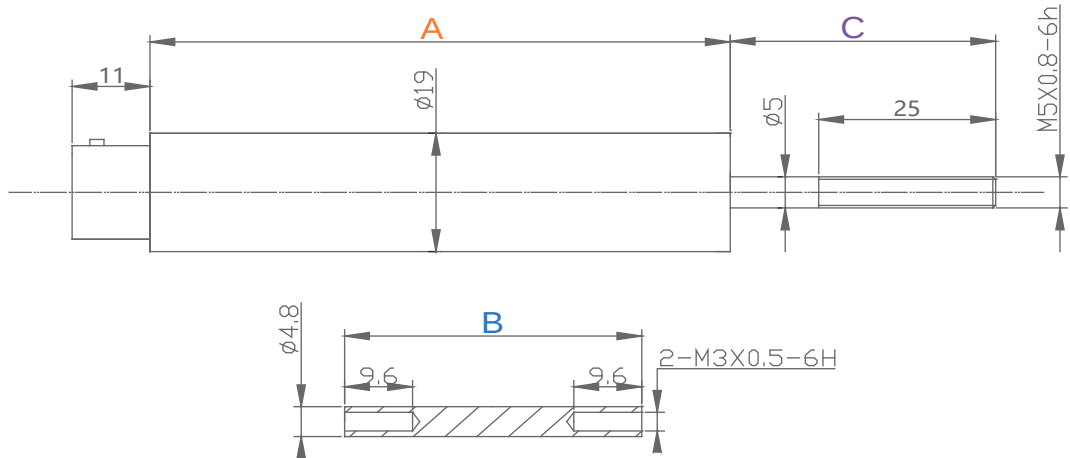


Connector

PIN	COLOR
Pin A	RED
Pin B	BLUE
Pin C	GREEN
Pin D	BLACK
Pin E	BROWN
Pin F	YELLOW

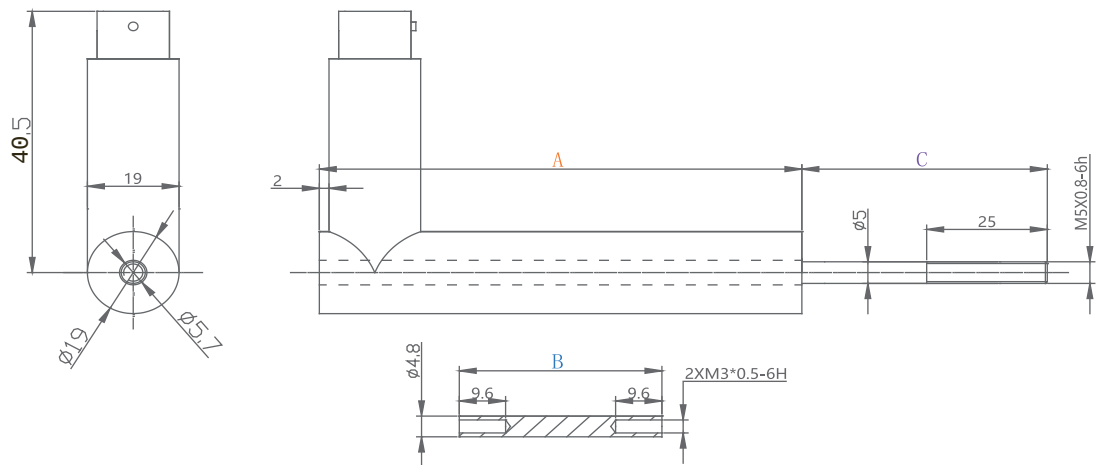
Dimension

Axial Connection



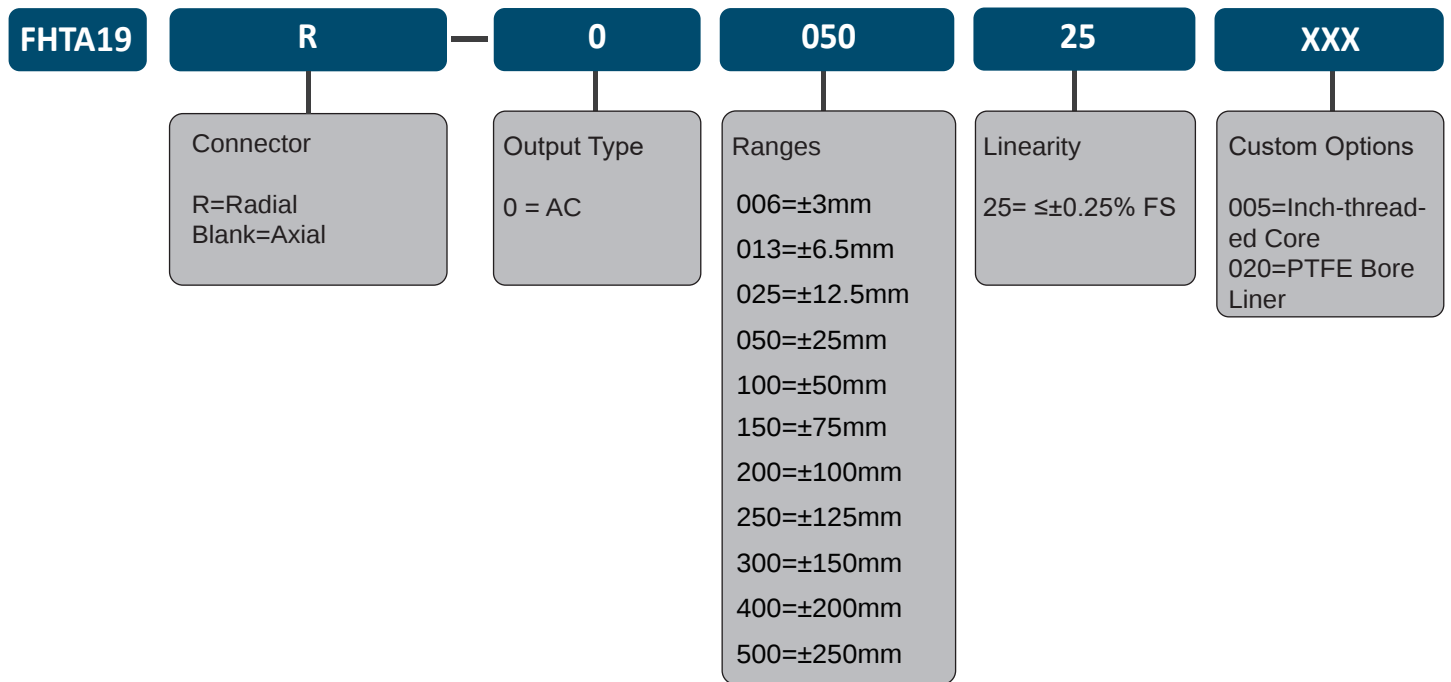
Parameter	Range →	006	013	025	050	100	150	200	250	300	400	500
Range	mm	±3	±6.5	±12.5	±25	±50	±75	±100	±125	±150	±200	±250
Body Length "A"	mm	68	82	148	187	277	346	411	474	501	626	804
Core Length "B"	mm	32	42	87.7	87.7	134.5	157.4	157.4	157.4	157.4	178	241
Null Position "C"	mm	39	38	67	93	106	135	159	278	266	285	388

Radial Connector



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Ordering Guide



Axial Connector

Range	Model	P/N
±3mm LVDT	FHTA19-000625	0356-0021
±6.5mm LVDT	FHTA19-001325	0356-0022
±12.5mm LVDT	FHTA19-002525	0356-0023
±25mm LVDT	FHTA19-005025	0356-0024
±50mm LVDT	FHTA19-010025	0356-0025
±75mm LVDT	FHTA19-015025	0356-0026

Range	Model	P/N
±100mm LVDT	FHTA19-020025	0356-0027
±125mm LVDT	FHTA19-025025	0356-0028
±150mm LVDT	FHTA19-030025	0356-0029
±200mm LVDT	FHTA19-040025	0356-0030
±250mm LVDT	FHTA19-050025	0356-0031

Radial Connector

Range	Model	P/N
±3mm LVDT	FHTA19R-000625	0356-0214
±6.5mm LVDT	FHTA19R-001325	0356-0215
±12.5mm LVDT	FHTA19R-002525	0356-0216
±25mm LVDT	FHTA19R-005025	0356-0217
±50mm LVDT	FHTA19R-010025	0356-0218
±75mm LVDT	FHTA19R-015025	0356-0219

Range	Model	P/N
±100mm LVDT	FHTA19R-020025	0356-0220
±125mm LVDT	FHTA19R-025025	0356-0221
±150mm LVDT	FHTA19R-030025	0356-0222
±200mm LVDT	FHTA19R-040025	0356-0223
±250mm LVDT	FHTA19R-050025	0356-0224

Accessories

P/N	Part Name	Model	Description
0356-TC6-0001	LVDT Cable Assembly	TC-6-2M	PT06A connector + 2 meters of high-temperature cable
0356-TC6-0002	LVDT Cable Assembly	TC-6-5M	PT06A connector + 5 meters of high-temperature cable
0356-TC6-0003	LVDT Cable Assembly	TC-6-10M	PT06A connector + 10 meters of high-temperature cable
20069388-4	Connector	PT06A-10-6S(SR)	Connector only, without cable
0355-001	Mounting Block	MTD-19	For OD 19mm LVDT installation

Contact Us

Contact us for technical consultation or customization requests.

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