1-800-633-0405

LZE19-100A-00-10S

from typical mechanical overstroking.

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ALLIANCE SENSORS GROUP A DIVISION OF H.G. SCHAEVITZ LLC

LZE19/LZI19 LVIT Inductive Linear Position Sensors



The LZ19 Series of LVIT (Linear Variable Inductance Transducer)

where space is a premium, as well as for external mounting on

pneumatic cylinders to sense rod position. The LVIT is offered

in nominal full scale ranges from 2.5 to 375 mm [0.10 to 15 in]

with an excellent stroke to-body-length ratio The sensor has

a 19mm [3/4 in] outside diameter stainless steel body with a

1m [3.2 ft] axial cable for I/O connections. The 6mm [0.236 in]

diameter through-bore of an LZ-19 provides clearance for its 5.2 mm [0.200 in]) diameter, PVDF-sheathed moving rod, which is made of the same material as its housing. This through-bore feature also means that the sensor is not subject to damage

position sensors are contactless devices designed for use

in factory automation or assembly machinery applications

Features

- LVIT Technology[™] (Linear Variable Inductance Transducer)
- Contactless operation prevents internal wearout from dithering or rapid cycling
- Full-scale ranges from 2.5 to 375 mm [0.10 to 15 in]
- Through-bore design eliminates mechanical overstroking
- DC in / DC out operation with built in electronics
- For applications requiring superior stroke-to-body-length ratio
- Proprietary SenSet[™] field adjustable range scaling

| | 1 7 F | 19/LZI19 LV | T Inductive | l inear Positi | on Sensors | | |
|--------------------|--------------|--------------|-------------------|------------------------|------------|----------------------|------------------|
| Part Number | Price | Drawing Link | Stroke mm [in] | Body Length mm [in] | Output | Connection m [ft] | Housing Material |
| 0-10 VDC models | | | • | | | | |
| LZE19-2.5A-00-10S | \$;05au]: | <u>PDF</u> | 2.5 [0.10] | 35.0 [1.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-6.4A-00-10S | \$;05au[: | PDF | 6.4 [0.25] | 35.0 [1.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-12.7A-00-10S | \$05au_: | PDF | 12.7 [0.50] | 35.0 [1.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-025A-00-10S | \$05au#: | PDF | 25 [1.0] | 35.0 [1.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-050A-00-10S | \$;05au!: | PDF | 50 [2.0] | 60.5 [2.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-100A-00-10S | \$05au?: | PDF | 100 [4.0] | 111.1 [4.38] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-150A-00-10S | \$;05au,: | PDF | 150 [6.0] | 165.1 [6.50] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-200A-00-10S | \$05av0: | PDF | 200 [8.0] | 215.9 [8.50] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-250A-00-10S | \$05av1: | PDF | 250 [10.0] | 266.7 [10.50] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-300A-00-10S | \$05av2: | PDF | 300 [12.0] | 317.5 [12.50] | 0-10 VDC | 1 [3.2] | Stainless steel |
| LZE19-375A-00-10S | \$05av3: | PDF | 375 [15.0] | 400.0 [15.75] | 0-10 VDC | 1 [3.2] | Stainless steel |
| 4-20 mA models | | | | | | | |
| LZI19-2.5A-00-20S | \$05av4: | PDF | 2.5 [0.10] | 35.0 [1.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-6.4A-00-20S | \$05av5: | PDF | 6.4 [0.25] | 35.0 [1.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-12.7A-00-20S | \$05av6: | PDF | 12.7 [0.50] | 35.0 [1.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-025A-00-20S | \$05av7: | PDF | 25 [1.0] | 35.0 [1.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-050A-00-20S | \$05av8: | PDF | 50 [2.0] | 60.5 [2.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-100A-00-20S | \$05av9: | PDF | 100 [4.0] | 111.1 [4.38] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-150A-00-20S | \$05ava: | PDF | 150 [6.0] | 165.1 [6.50] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-200A-00-20S | \$05avb: | PDF | 200 [8.0] | 215.9 [8.50] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-250A-00-20S | \$05avc: | PDF | 250 [10.0] | 266.7 [10.50] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-300A-00-20S | \$05avd: | PDF | 300 [12.0] | 317.5 [12.50] | 4-20 mA | 1 [3.2] | Stainless steel |
| LZI19-375A-00-20S | \$05ave: | PDF | 375 [15.0] | 400.0 [15.75] | 4-20 mA | 1 [3.2] | Stainless steel |

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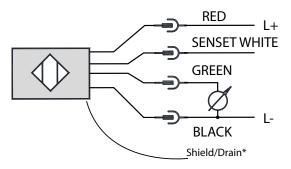
ALLIANCE SENSORS GROUP

LZE19/LZI19 LVIT Inductive Linear Position Sensors

| LZE19/LZI19 LVIT Inductive Linear Position Sensor Specifications | | | | | |
|--|---|--|--|--|--|
| Analog I/Os | 0–10 VDC output; 12–30V input, 35 mA max 4 – 20 mA (3-wire) output; 18–30V input, 60 mA max. [75° C max] | | | | |
| Measuring Ranges | 2.5 to 750 mm [0.100 to 30 in] full scale | | | | |
| Linearity Error | ≤ ± 0.15% of Full Scale Output (FSO) typical, ±0.25% max | | | | |
| Resolution | 0.025% of FS | | | | |
| Update Rate | 300Hz nominal | | | | |
| Operating Temperature | Current output: -20 to +85°C; [-40 to +185°F]; Voltage output: -40 to 105°C [-40 to 221°F] | | | | |
| Temperature Coefficient | $\leq \pm 0.015\%$ of FS/C | | | | |
| Vibration | 5-20 Hz, 0.5 in peak-to-peak; 20-2000 Hz, 4.2 g peak-to-peak | | | | |
| Shock | 1000g, 11ms | | | | |
| Terminations | IEC IP-67 | | | | |
| Humidity | 95% RH, non-condensing | | | | |
| Connection | 1m [3.2 ft] cable, PUR, 28AWG | | | | |
| Mounting | M5 x 0.8 [mount for target rod] | | | | |
| Agency Approval * | CE | | | | |

*To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Wiring Diagram



*Shield not connected internally

| Wiring Table | | | | | |
|----------------|-------------|--|--|--|--|
| I/O Function | Cable Color | | | | |
| + Power Input | Red | | | | |
| Ground | Black | | | | |
| Analog Output | Green | | | | |
| SenSet™ | White | | | | |
| Shield/Drain * | Shield | | | | |

*Shield not connected internally