

LEA Sensors Compatible with SEL-700 Series Relays

Various SEL-700 series relays are now available with LEA sensor inputs. This includes model SEL-700BT, SEL-700G, SEL-787-2/-3/-4, SEL-710-5, SEL-751, and SEL-787L relays for line, feeder, motor, generator, and transformer protection applications.

Lindsey now offers current and voltage sensors compatible with these relays. The sensors are designed for the specific input impedance requirements of the relays per IEEE C37.92 and IEC 61869-10, -11, and -13 standards. The sensors also feature the RJ-45 style connectors used by these SEL relays.

LEA Current Sensors

For switchgear applications, Lindsey offers both flexible Rogowski coil sensors and low-power CT options. Both are 600V insulation class for use on insulated MV cables. The magnitude and phase accuracy of these sensors meets the Standard's requirements.

Rogowski coil sensors are designed to use the integrator built-in to the SEL relays.

LEA Voltage Sensors

Voltage sensors are available in IEEE Std 386 underground compatible elbow, T-body and plug style sensors. Lindsey LVS voltage sensors for use in live-front switchgear are also available in LEA versions.

About LEA Sensors

Various relay manufacturers, are offering relays compatible with Low-Energy Analog (LEA) sensors. LEA current sensors provide excellent linearity, a wide dynamic range, and often reduced size and weight. Most Lindsey voltage sensors for the past 40+ years have always been LEA designs internally. Lindsey's new LEA voltage sensor products are specifically tailored to interface to relays following the IEEE C37.92 and IEC 61869-10, -11, and -13 standards.



Lindsey LEA Rogowski Coil Current Sensor

LEA Voltage Sensor Ordering Table*

Sensor Style

600/900A Plug Style	200A Elbow	200A T-Body	Type LVS Live-Front
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15kV Accuracy 1400:1 Ratio

0.50%	9552/0111/2M/RJ	9532/0111/2M/RJ	9542/0111/2M/RJ	95L61/0111/2M/RJ
0.30%	95M52/0111/2M/RJ	95M32/0111/2M/RJ	95M42/0111/2M/RJ	95LM61/0111/2M/RJ
0.15%	95R52/0111/2M/RJ	95R32/0111/2M/RJ	95R42/0111/2M/RJ	N/A

25kV Accuracy 2200:1 Ratio

0.50%	9553/0211/2M/RJ	9533/0211/2M/RJ	N/A	95L62/0211/2M/RJ
0.30%	95M53/0211/2M/RJ	95M33/0211/2M/RJ	N/A	95LM62/0211/2M/RJ
0.15%	95R53/0211/2M/RJ	95R33/0211/2M/RJ	N/A	N/A

35kV Accuracy 3300:1 Ratio

0.50%	9554/0311/2M/RJ	9534/0311/2M/RJ	N/A	N/A
0.30%	95M54/0311/2M/RJ	95M34/0311/2M/RJ	N/A	N/A
0.15%	95R54/0311/2M/RJ	95R34/0311/2M/RJ	N/A	N/A

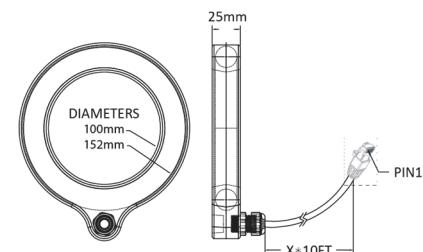
Other style Lindsey voltage sensors can also be provided in an LEA version. Please contact factory for ordering information.

*All voltage sensors feature a 10 foot (3m) cable terminated with a shielded RJ45 connector (pin #7: V+, pin #8: GND).

Other ratios, cable lengths and cable styles are available. Contact the factory for more information.

LEA Current Sensor Ordering Table

Sensor Type	Part #	Description
Rogowski Coil	95RC10/7021/RJ	Fully shielded Rogowski coil, 133mV/kA@60Hz, cast-in 15' cable terminated with shielded RJ45 connector (pin #1: S1, pin #2: S2). Non-integrated output. Dimensions: 100mm ID (Other IDs available by special order) Other ratios, cable lengths, and cable/connector styles are
Low Power CT	95LP10/8021/RJ	Low-Power CT, 600A:200mV, 15' cable terminated with shielded RJ45 connector (pin #1: S1, pin #2: S2). Other ratios, cable lengths and cable/connector styles are available. The Low Power CT is also available in the same dimensional package as Lindsey's traditional ElbowSense™ Ring Style current sensor. Contact the factory for more information.



Low Power CT Dimensions

NOTE: For dimensions of all other sensors, see the Lindsey Sensors Catalogs @ Lindsey-USA.com

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Publication Number 09F-019 LEA SENSORS • April 2025