

CURRENT SENSORS 0-10VDC / 4-20mA

ESOL.. ESLT..

These devices are powered by induction from the monitored AC conductor which passes through the hole/core. A 0-10vdc or 4-20mA output signal linear across the selected range is produced. They sense the current flow and can thereby monitor the operation/failure of fans, pumps, motors etc.



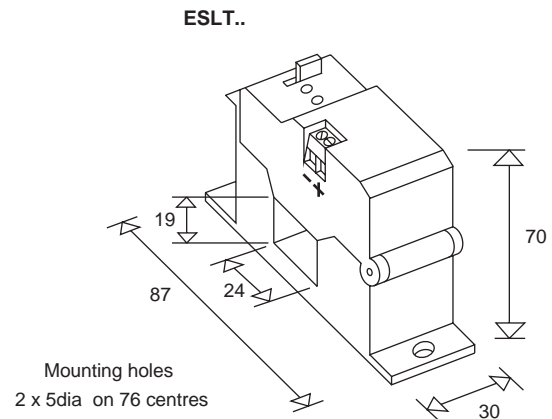
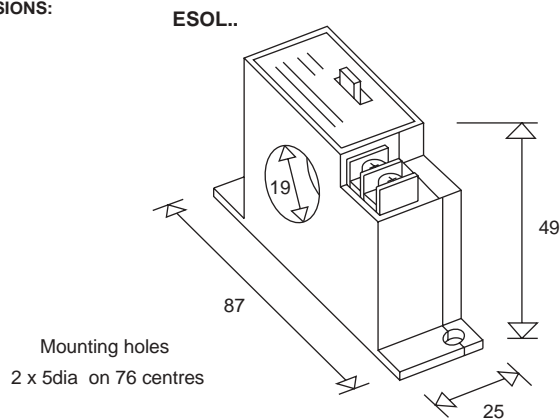
Enclosure Flammability: UL94-V0
 Response Time ESOL: 100 mS
 ESLT: 250 mS
 Operating Temperature: -30 to 70°C
 Operating Humidity: 0 to 95% non cond.
 Reverse voltage protected
 Output limited

Type	Description	Output	Powered By	Accuracy % Full Scale	Frequency	Selectable Input Ranges L M H	Max Overload Current L M H
ESOL-451-1	Solid Core	0-10VDC	Induction	1%	40-100Hz	0-10, 0-20, 0-50A	80, 120, 200A
ESOL-451-2	Solid Core	0-10VDC	Induction	1%	40-100Hz	0-50, 0-100, 0-200A	175, 300, 400A
ESOL-475-1	Solid Core	4-20mA	24VDC Loop	1%	10-400Hz	0-10, 0-20, 0-50A	80, 120, 200A
ESOL-475-2	Solid Core	4-20mA	24VDC Loop	1%	10-400Hz	0-50, 0-100, 0-200A	175, 300, 400A
ESLT-551-1	Split Core	0-10VDC	Induction	1%	40-100Hz	0-10, 0-20, 0-50A	80, 120, 200A
ESLT-551-2	Split Core	0-10VDC	Induction	1%	40-100Hz	0-50, 0-100, 0-200A	175, 300, 400A
ESLT-575-1	Split Core	4-20mA	24VDC Loop	1%	10-400Hz	0-10, 0-20, 0-50A	80, 120, 200A
ESLT-575-2	Split Core	4-20mA	24VDC Loop	1%	10-400Hz	0-50, 0-100, 0-200A	175, 300, 400A

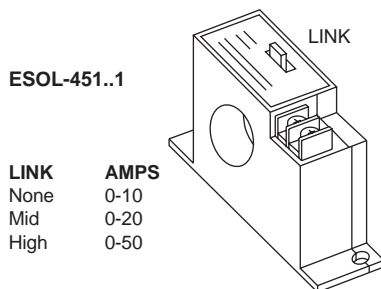
Select the range and fit the link according to the conductor current.

If the conductor current is too low ie. 0.5A then loop through the sensor more than once ie. 3 loops = 1.5A and will divide the maximum range by 3. If the conductor wire is too large, or the current too high it can be wired to the primary side of a current transformer, the secondary side wire is then passed through the sensor core. Do NOT exceed the voltage or current ratings as this will cause damage to the device.

DIMENSIONS:



WIRING:



ESOL-451..1

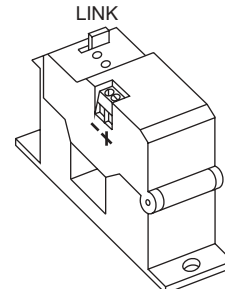
LINK	AMPS
None	0-10
Mid	0-20
High	0-50

ESOL-475..2

LINK	AMPS
None	0-50
Mid	0-100
High	0-200

ESLT-551..1

LINK	AMPS
None	0-10
Mid	0-20
High	0-50



ESLT-575..2

LINK	AMPS
None	0-50
Mid	0-100
High	0-200

INSTALLATION:

Ensure the core is clean at the time of installation as dirt/foreign particles may prevent correct operation. Ensure link/jumper is in the correct position before switching the power on. Pass the live conductor/wire through the core.

OUTPUT 0-10VDC : If the range selected is 0-10 amps the output will be 0-10vdc linear over 0-10 amps.

OUTPUT 4-20mA: If the range selected is 0-10 amps the output will be 4-20mA linear over 0-10 amps.

Min cable size 7/0.2mm Max cable length 100m.
 Screened cable is highly recommended.

Keep away from power cables/units which may cause interference.
 The screen should be earthed at controller end only.

CAUTION:

These devices are suitable for low voltage supply only. Do not exceed rated voltage. Isolate device from electrical supply before servicing. Always ensure the device operates correctly. If failure of the device can cause damage a safety backup control should be fitted. All data is for guidance purposes only, subject to change without prior notice and not guaranteed to be absolutely correct unless confirmed by us in writing.

Device should be checked by a qualified technician before applying any voltage. Observe all relevant safety precautions, wiring/ earthing regulations and electrical ratings. Do not rely on status indicators to determine presence of conductor power.

