

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.



ESOL.. ESLT..

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.

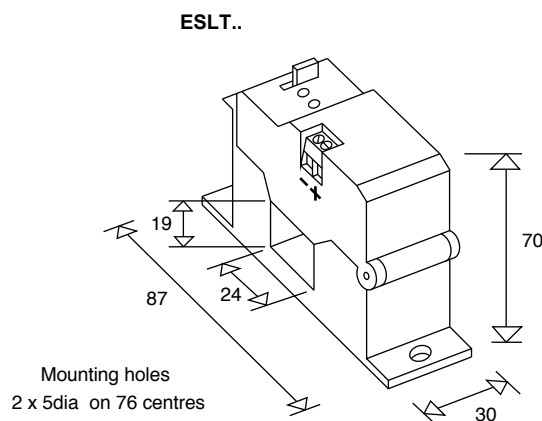
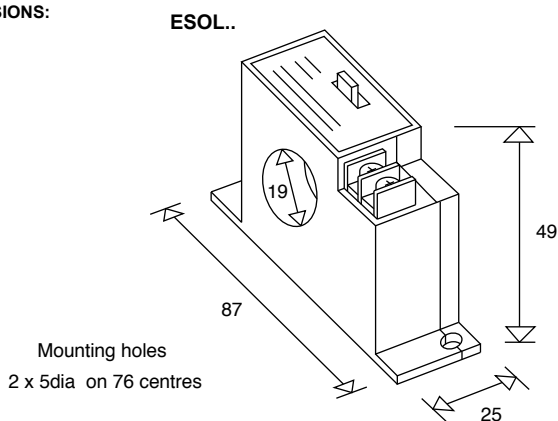
Reverse voltage protected

Output limited

Type	Description	Output	Powered By	Accuracy % Full Scale	Frequency	Selectable Input Ranges			Max Overload Current		
						L	M	H	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		

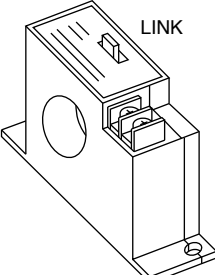
Select the range and fit the link according to the conductor current.
 If the conductor current is too low ie. 0.5A then loop through the sensor more than once ie. 3 loops = 1.5A and will divide the maximum range by 3.
 If the conductor wire is too large, or the current too high it can be wired to the 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

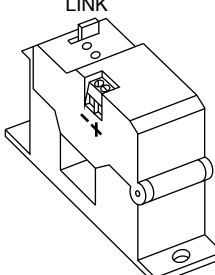


LINK	AMPS
None	0-10
Mid	0-20
High	0-50

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