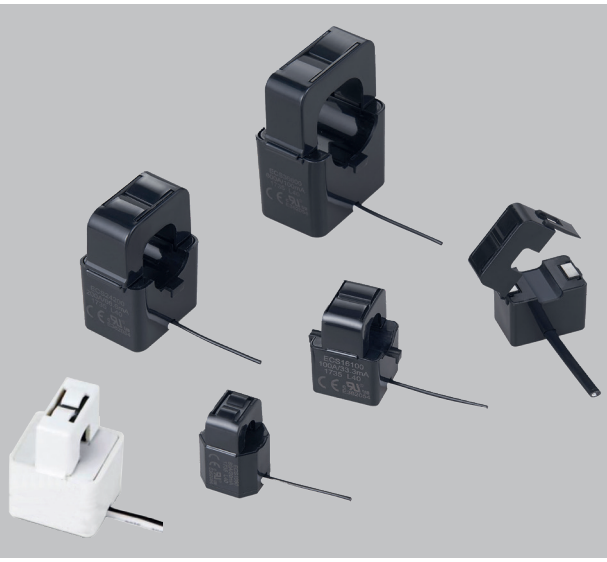


Doc. no. 2.204.028.1.h 10/2026

Split Core
Low Power Current Transformer

CT-SC-006
CT-SC-010
CT-SC-012
CT-SC-016
CT-SC-024
CT-SC-036

Data sheet

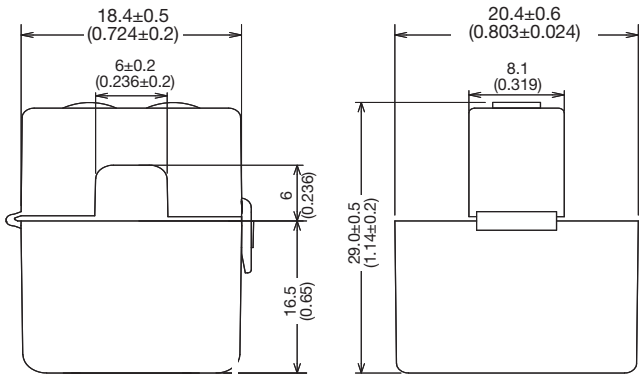
Janitza electronics GmbH
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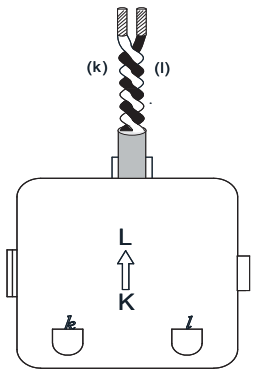
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TECHNICAL DATA & DIMENSIONS

Type	Cable length	Primary current
CT-SC-006-500-20	5.0 m (196.85 in)	20 A







all dimensions in mm (in)

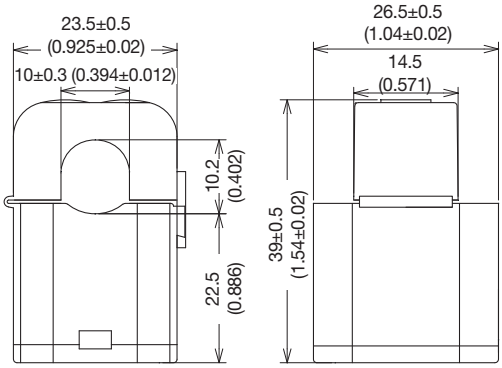
INFORMATION

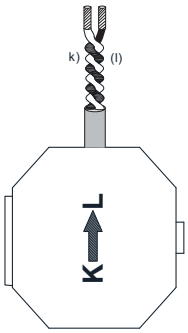
Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

Specifications	Data
Phase error at nominal current	≤3°
Weight appr.	31 g (0.07 lb)
Output signal	333 mV
Short time thermal current for 1 sec	16 kA
Overload capacity	120 %
PVC wire leads	24 AWG
Accuracy class	0.5
Frequency	50 .. 60 Hz
Insulation voltage	2.5 kV/1 mA /1 min
Operating temperature	-40 .. 65 °C (-40 .. 149 °F)
Storage temperature	-45 .. 80 °C (-49 .. 176 °F)
Standards	ANSI C57.13, IEC61869-2, RoHS compliant
Case	Rigid housing case with UL 94 V-0 durable plastic
Insulation resistance	DC 500 V/100 MΩ min
Cable tie mounting	No

Type	Cable length	Primary current
CT-SC-010-500-5	5.0 m (196.85 in)	5 A
CT-SC-010-500-50	5.0 m (196.85 in)	50 A
CT-SC-010-500-75	5.0 m (196.85 in)	75 A







all dimensions in mm (in)

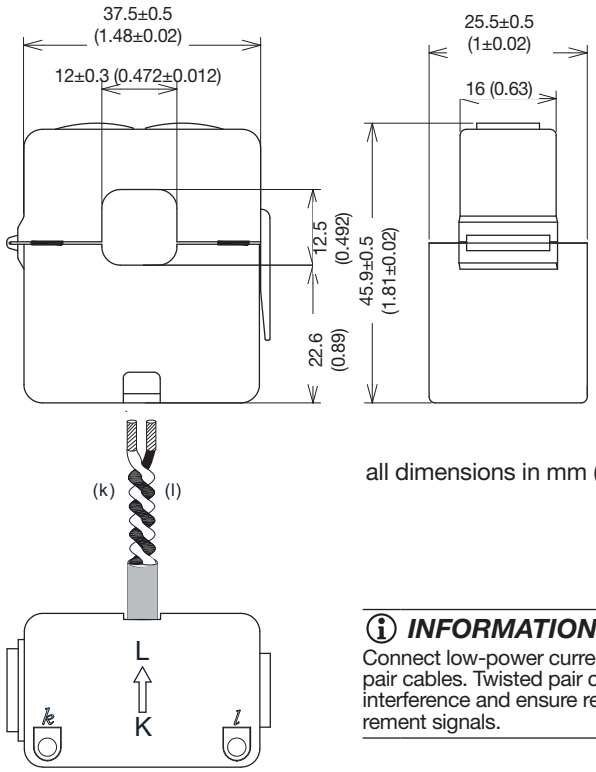
INFORMATION

Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

Specifications	Data 5 A	Data 50 A	Data 75 A
Phase error at nominal current	≤3°	≤1°	≤1.5°
Weight appr.	60 .. 127 g (0.13 .. 0.28 lb)		
Output signal	333 mV		
Short time thermal current for 1 sec	16 kA		
Overload capacity	120 %	120 %	100 %
PVC wire leads	24 AWG		
Accuracy class	0.5		
Frequency	50 .. 60 Hz		
Insulation voltage	2.5 kV/1 mA/1 min		
Operating temperature	-40 .. 65 °C (-40 .. 149 °F)		
Storage temperature	-45 .. 80 °C (-49 .. 176 °F)		
Standards	ANSI C57.13, IEC61869-1, RoHS compliant		
Case	Rigid housing case with UL 94 V-0 durable plastic		
Insulation resistance	DC 500 V/100 MΩ min		
Cable tie mounting	No		

Type	Cable length	Primary current
CT-SC-012-500-75	5.0 m (196.85 in)	75 A





all dimensions in mm (in)

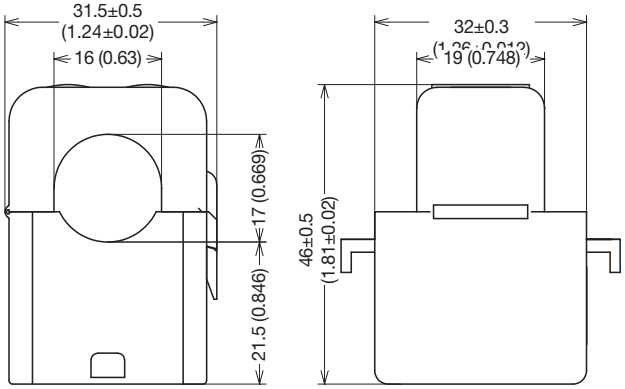
INFORMATION

Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

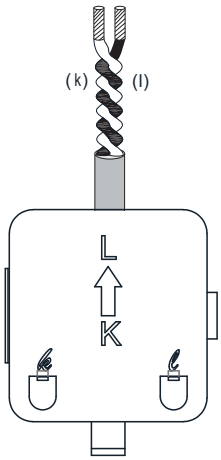
Specifications	Data
Phase error at nominal current	≤1°
Weight appr.	70 .. 130 g (0.15 .. 0.29 lb)
Output signal	333 mV
Short time thermal current for 1 sec	16 kA
Overload capacity	120 %
PVC wire leads	24 AWG
Accuracy class	0.5
Frequency	50 .. 60 Hz
Insulation voltage	2500 V_{ac}/1 min
Operating temperature	-40 .. 65 °C (-40 .. 149 °F)
Storage temperature	-45 .. 85 °C (-49 .. 185 °F)
Standards	ANSI C57.13, IEC61869-2, RoHS compliant
Case	Rigid housing case with UL 94 V-0 durable plastic
Insulation resistance	DC 500 V/100 MΩ min
Cable tie mounting	No

Type	Cable length	Primary current
CT-SC-016-500-100	5.0 m (196.85 in)	100 A





all dimensions in mm (in)



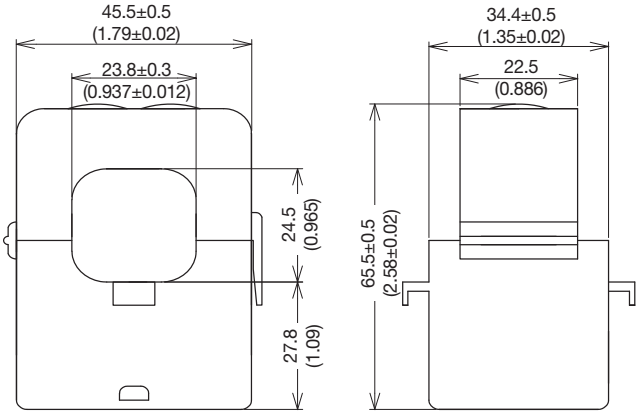
INFORMATION

Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

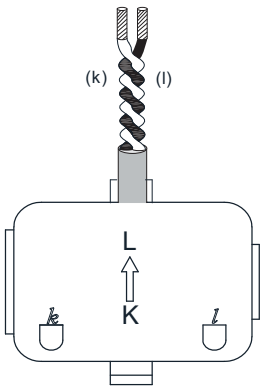
Specifications	Data
Phase error at nominal current	≤1°
Weight appr.	150 g (0.33 lb)
Output signal	333 mV
Short time thermal current for 1 sec	16 kA
Overload capacity	120 %
PVC wire leads	24 AWG
Accuracy class	0.5
Frequency	50 .. 60 Hz
Insulation voltage	2.5 kV/1 mA/1 min
Operating temperature	-40 .. 65 °C (-40 .. 149 °F)
Storage temperature	-45 .. 85 °C (-49 .. 185 °F)
Standards	ANSI C57.13, IEC61869-1, RoHS compliant
Case	Rigid housing case with UL 94 V-0 durable plastic
Insulation resistance	DC 500 V/100 MΩ min
Cable tie mounting	Yes

Type	Cable length	Primary current
CT-SC-024-500-100	5.0 m (196.85 in)	100 A
CT-SC-024-500-200	5.0 m (196.85 in)	200 A
CT-SC-024-500-250	5.0 m (196.85 in)	250 A





all dimensions in mm (in)



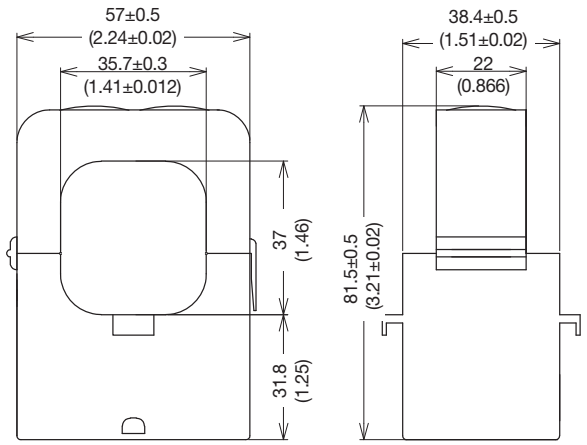
INFORMATION

Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

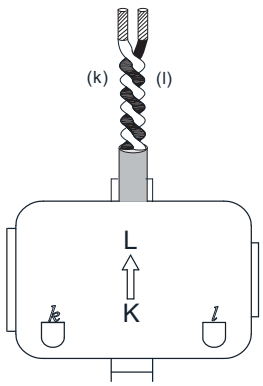
Specifications	Data
Phase error at nominal current	≤0.5˚
Weight appr.	180 .. 252 g (0.4 .. 0.56 lb)
Output signal	333 mV
Short time thermal current for 1 sec	40 kA
Overload capacity	120 %
PVC wire leads	24 AWG
Accuracy class	0.5
Frequency	50 .. 60 Hz
Insulation voltage	2.5 kV/1 mA/1 min
Operating temperature	-40 .. 65 °C (-40 .. 149 °F)
Storage temperature	-45 .. 85 °C (-49 .. 185 °F)
Standards	ANSI C57.13, IEC61869-2, RoHS compliant
Case	Rigid housing case with UL 94 V-0 durable plastic
Insulation resistance	DC 500 V/100M Ω min
Cable tie mounting	Yes

Type	Cable length	Primary current
CT-SC-036-500-400	5.0 m (196.85 in)	400 A
CT-SC-036-500-600	5.0 m (196.85 in)	600 A





all dimensions in mm (in)



INFORMATION

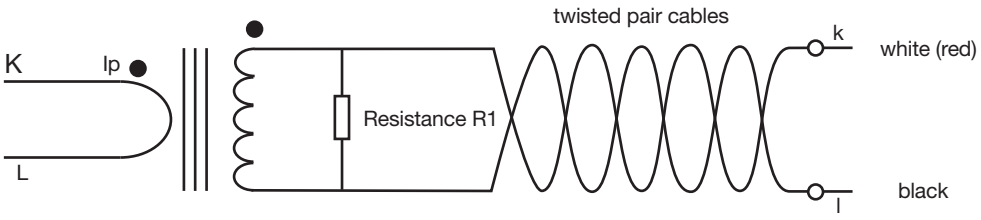
Connect low-power current transformers via twisted pair cables. Twisted pair cables reduce electromagnetic interference and ensure reliable transmission of measurement signals.

Specifications	Data
Phase error at nominal current	≤0.5°
Weight appr.	346 .. 352 g (0.76 .. 0.78 lb)
Output signal	333 mV
Short time thermal current for 1 sec	40 kA
Overload capacity	120 %
PVC wire leads	24 AWG
Accuracy class	0.5
Frequency	50 .. 60 Hz
Insulation voltage	2500 V_{ac}/1 min
Operating temperature	-40 .. 60 °C (-40 .. 140 °F)
Storage temperature	-45 .. 85 °C (-49 .. 185 °F)
Standards	ANSI C57.13, IEC61869-1, RoHS compliant
Case	Rigid housing case with UL 94 V-0 durable plastic
Insulation resistance	DC 500 V/100 MΩ min
Cable tie mounting	Yes

OVERVIEW & ART.NO.

Type	Art. no.	Primary current	Carry out primary conductor mm (in)	Cable length m (in)	Accuracy class
CT-SC-010-500-5	1503333	5 A	Ø 10 (0.394)	5.0 (196.85)	0,5
CT-SC-006-500-20	1503334	20 A	Ø 6 (0.236)	5.0 (196.85)	0.5
CT-SC-010-500-50	1503335	50 A	Ø 10 (0.394)	5.0 (196.85)	0.5
CT-SC-010-500-75	1503336	75 A	Ø 10 (0.394)	5.0 (196.85)	0.5
CT-SC-012-500-75	1503337	75 A	Ø 12 (0.472)	5.0 (196.85)	0.5
CT-SC-016-500-100	1503338	100 A	Ø 16 (0.630)	5.0 (196.85)	0.5
CT-SC-024-500-100	1503339	100 A	Ø 24 (0.945)	5.0 (196.85)	0.5
CT-SC-024-500-200	1503340	200 A	Ø 24 (0.945)	5.0 (196.85)	0.5
CT-SC-024-500-250	1503341	250 A	Ø 24 (0.945)	5.0 (196.85)	0.5
CT-SC-036-500-400	1503342	400 A	Ø 36 (1.420)	5.0 (196.85)	0.5
CT-SC-036-500-600	1503343	600 A	Ø 36 (1.420)	5.0 (196.85)	0.5

CONNECTION



$$V = \frac{I \times R}{T_e}$$

$$V_L = V_{max} - \left[\frac{I \times DCR}{T_e} \right]$$

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