

NK Technologies DC Current Transducers

SPLIT CORE

- Fits over bus bar or wire
- Ranges up to 400A
- 5V, 10V or 4-20mA output
- 24V AC or DC powered
- 1500V working voltage
- Bus bar, panel or DIN rail mount


DT-BB

SPECIFICATIONS

SPLIT CORE CURRENT TRANSDUCERS	
Power Supply:	24 VAC/DC (20-26 V) Power and signal are not isolated
Consumption:	<2 VA
Output:	0-5 VDC, 0-10 VDC or 4-20 mA; Bidirectional models: +/-5 or +/-10 VDC
Output Limits:	4-20 mA: 23 mA 0-5 VDC: 5.75 VDC 0-10 VDC: 11.5 VDC
Accuracy:	1.0% FS
Response Time:	40 ms (90% step change)
Isolation:	Working voltage to 1500 VDC
Frequency:	DC
Case:	UL94 V0 flammability rated
Environmental:	-4 to 122°F (-20 to 50°C) 0-95% RH, non-condensing
Listings:	Designed for UL/cUL and CE approval
Aperture:	1" (25.4mm) dia. 1.33" x 0.33" slot (33x8.4mm)
Dimensions:	3.92"W x 3.65"H x 2.0"D (100x93x48mm)

ORDERING INFORMATION

Use Code for Each Letter to Build Part Number.
Example: DT1-005-24U-BP-BB

A Range	
DT1	0-100 A
DT2	0-200 A
DT3	0-300 A
DT4	0-400 A
B Output	
-005	0-5 VDC
-010	0-10 VDC
-420	4-20 mA
C Power Supply	
-24U	24 VAC/DC
D Output Type*	
-U	Unipolar
-BP	Bipolar
-BD	Bidirectional (VDC output only)
E Case	
-BB	Split core, busbar or panel mount

HIGH VOLTAGE

- Ranges up to 400A
- 5V, 10V or 4-20mA output
- 24V AC or DC powered
- 1500V working voltage
- 1.31" window
- Panel or DIN rail mounting

DT-FD


SPECIFICATIONS

HIGH VOLTAGE CURRENT TRANSDUCERS	
Power Supply:	24 VAC/DC (22-26 V) Power and signal are not isolated
Consumption:	<3 VA
Output:	0-5 VDC, 0-10 VDC or 4-20 mA; Bidirectional models: +/-5 or +/-10 VDC
Output Limits:	4-20 mA: 20.8 mA 0-5 VDC: 5.25 VDC 0-10 VDC: 10.5 VDC
Accuracy:	1.0% FS
Response Time:	150 ms
Isolation:	Working voltage to 1500 VDC
Frequency:	DC
Case:	UL94 V0 flammability rated
Environmental:	-4 to 122°F (-20 to 50°C) 0-95% RH, non-condensing
Listings:	UL/cUL and CE approval
Aperture:	1.31" (33.3mm) dia.
Dimensions:	3.0"W x 3.26"H x 2.77"D (77x83x71mm)

ORDERING INFORMATION

Use Code for Each Letter to Build Part Number.

A Range	
DT2	0-200 A
DT3	0-300 A
DT4	0-400 A
B Output	
-005	0-5 VDC
-010	0-10 VDC
-420	4-20 mA
C Power Supply	
-24U	24 VAC/DC
D Output Type*	
-U	Unipolar
-BP	Bipolar
-BD	Bidirectional (VDC output only)
E Case	
-FD	Large, solid core, DIN rail or panel mount

LARGE APERTURE

- 1.81" window
- Ranges up to 1200A
- 5V, 10V or 4-20mA output
- 120VAC or 24V AC/DC powered
- Fixed factory calibration
- DIN rail mount
- 5 year warranty


DT-DL

SPECIFICATIONS

LARGE APERTURE CURRENT TRANSDUCERS	
Power Supply:	24 VAC/DC (22-26 V) 120 VAC (108-132 V)
Consumption:	2 VA
Output:	0-5 VDC, 0-10 VDC or 4-20 mA;
Output Limits:	4-20 mA: 23 mA (650Ω max.) 0-5 VDC: 5.75 VDC (25kΩ min.) 0-10 VDC: 11.5 VDC (50kΩ min.)
Accuracy:	2.0% FS
Repeatability:	1.0% FS
Response Time:	100 ms (90% step change)
Isolation:	UL listed to 1270VAC (line to output)
Frequency:	DC
Case:	UL94 V0 flammability rated
Environmental:	-4 to 122°F (-20 to 50°C) 0-95% RH, non-condensing
Listings:	UL/cUL and CE approval
Aperture:	1.81" (46mm) dia.
Dimensions:	3.0"W x 4.13"H x 3.25"D (77x105x83mm)

ORDERING INFORMATION

Use Code for Each Letter to Build Part Number.

A Range	
DT5	0-300 A
DT6	0-500 A
DT7	0-7500 A
DT8	0-1000 A
DT9	0-1200 A
B Output	
-005	0-5 VDC
-010	0-10 VDC
-420	4-20 mA
C Power Supply	
-24U	24 VAC/DC
-120	120 VAC
D Output Type*	
-U	Unipolar
-BP	Bipolar
E Case	
-DL	Solid core, DIN rail mount

* **OUTPUT TYPE: Unipolar:** Positive output for current flowing in either direction. **Bipolar:** Full output for full range current in one direction, minimum output for full range current in the opposite direction (e.g. 0-5-10V). **Bidirectional:** Output is positive for current in one direction, negative for current in the opposite direction (e.g. ±10V).