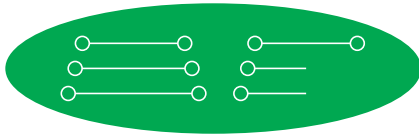
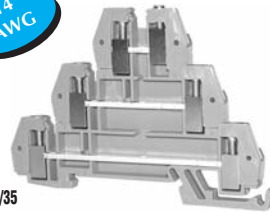


# Triple-level and Sensor Terminal Blocks



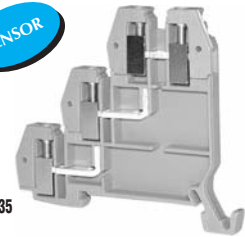
Our triple-level terminal blocks enable either high-density wiring or simplified, low-cost sensor wiring. When wiring space is at a premium, use the DN-TL14 to connect three separate circuits in only 5 mm of linear DIN rail space. The rest of our family of triple-level blocks will allow you to wire one terminal block per sensor, vs. the traditional method, which requires three different single-level blocks per sensor. The DN-TL14S is our standard sensor terminal block, and the DN-TL14SLP and DN-TL14SLN provide LED indication at the terminal block when voltage is present.

14 AWG



DN-TL14  
Series: EURO W 2.5/35

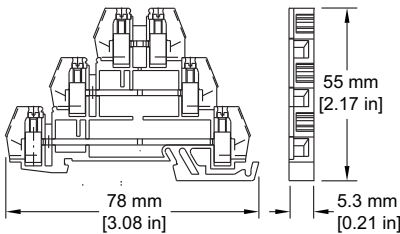
SENSOR



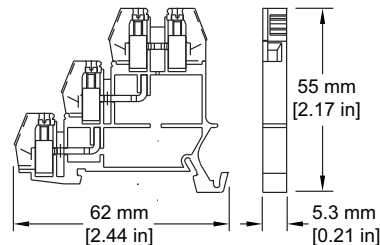
DN-TL14S  
Series: EURO Z 2.5/35

	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	
<b>Gray Term Block</b>	<b>DN-TL14</b>	25	<--->	<b>DN-TL14S</b>	25	<--->	
<b>Triple-level and Sensor Terminal Blocks Specifications</b>							
<b>UL Approval*</b>	300V	10A	26-14AWG	300V	10A	26-14AWG	
<b>CSA Approval</b>	300V	10A	26-14AWG	300V	10A	26-14AWG	
<b>VDE Approval</b>	300V	10A	2.5mm <sup>2</sup>	300V	10A	2.5mm <sup>2</sup>	
<b>CE Conformity</b>	CE 23/20, CE 23/21			CE 23/20, CE 23/21			
<b>Agency File #</b>	UL E179129			UL E179129			
<b>Wire Strip Length</b>	0.39" (10mm)			0.39" (10mm)			
<b>Tightening Torque</b>	4.5 lb-in. (0.50 Nm)			4.5 lb-in. (0.50 Nm)			
<b>Density</b>	57 pcs./ft. (200/m)			57 pcs./ft. (200/m)			
<b>Operating Temperature</b>	Ambient air temperature: -13°F to 104°F (-25°C to 40°C) Relative humidity: 50% max at 104°F (40°C); 90% max at 68°F (20°C)						
<i>* Note: For copper wire only</i>							
<b>Accessories</b>							
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	
<b>35 mm DIN Rail</b>	<b>DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)</b>					10	various
	<b>DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)</b>					2	various
<b>End Bracket</b>	<b>DN-EB35</b>					50	<--->
	<b>DN-EB35MN</b>					20	<--->
	<b>DN-EB35-A or DN-QEB35</b>					50	various
	<b>DN-EB35-A-10 or DN-QEB35-10</b>					10	various
<b>End Cover</b>	<b>DN-EC14</b>	25	<--->	<b>DN-EC14S</b>	25	<--->	
<b>Jumpers</b>	<b>/ 2 pole Blue</b>	<b>DN-2JL14B</b>				100	<--->
	<b>/ 3 pole Blue</b>	<b>DN-3JL14B</b>				100	<--->
	<b>/ 4 pole Blue</b>	<b>DN-4JL14B</b>				100	<--->
	<b>/ 12 pole Blue</b>	<b>DN-12JL14B</b>				10	<--->
	<b>/ 2 pole Red</b>	<b>DN-2JL14</b>				100	<--->
	<b>/ 3 pole Red</b>	<b>DN-3JL14</b>				100	<--->
<b>Marking Tags</b>	<b>/ 4 pole Red</b>	<b>DN-4JL14</b>				100	<--->
	<b>/ 12 pole Red</b>	<b>DN-12JL14</b>				10	<--->
	<b>DN-LAT series</b>					500	<--->
<b>Angled Support Bracket</b>	<b>DN-ASB1</b>					50	<--->

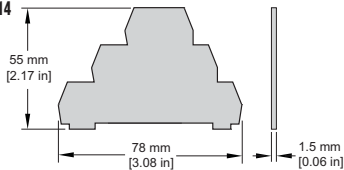
DN-TL14



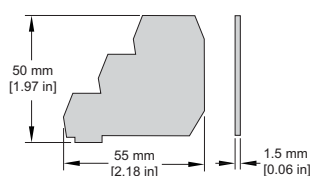
DN-TL14S



DN-EC14



DN-EC14S



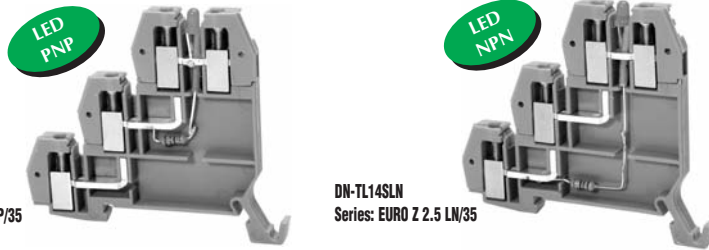
For more information on accessories, see the DINnectors Accessories section of this chapter.

## Sensor wiring has never been this simple.

- A** Wire the bottom two levels of one DN-TL14 to connect your power supply to what will become a sensor +V and -V power bus.
- B** Mount the triple-level sensor blocks next to the DN-TL14. The DN-TL14S is our standard sensor terminal block. The DN-TL14SLP gives you LED indication for PNP sensors, and the DN-TL14SLN gives you LED indication for NPN sensors.
- C** Use the top level to connect the first sensor signal line to the PLC.
- D** Connect the power supply terminals of the DN-TL14 to the LED sensor terminal blocks by installing jumpers. This will create a +V and -V power bus on the two bottom levels of the terminals. Use an external wire to connect a group of 12 DN-TL14s to another group.
- E** Wire the sensor signal lines through the top levels of the blocks to your PLC or controller. Remember to use the appropriate end covers to cover any exposed metal parts for safety purposes.

See example wiring diagram on next page

# Sensor Terminal Blocks with LED



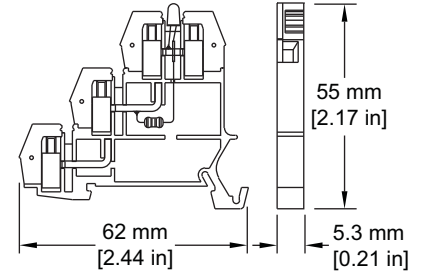
DN-TL14SLP  
Series: EURO Z 2.5 LP/35

DN-TL14SLN  
Series: EURO Z 2.5 LN/35

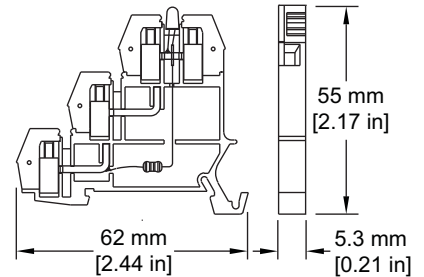
Gray Term Block	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg
	<b>DN-TL14SLP</b>	25	<--->	<b>DN-TL14SLN</b>	25	<--->
<b>Sensor Terminal Blocks with LEDs Specifications</b>						
<b>UL Approval*</b>	300V	10A	26-14AWG	300V	10A	26-14AWG
<b>CSA Approval</b>	300V	10A	26-14AWG	300V	10A	26-14AWG
<b>VDE Approval</b>	300V	10A	2.5mm <sup>2</sup>	300V	10A	2.5mm <sup>2</sup>
<b>CE Conformity</b>	CE 23/20, CE 23/21			CE 23/20, CE 23/21		
<b>LED Voltage</b>	12 - 24V AC/DC. 3.4 kΩ			24V AC/DC		
<b>Agency File #</b>	UL E179129			UL E179129		
<b>Leakage Current</b>	25mA@5V			25mA@5V		
<b>Wire Strip Length</b>	0.39" (10mm)			0.39" (10mm)		
<b>Tightening Torque</b>	4.5/lb-in. (0.50 Nm)			4.5/lb-in. (0.50 Nm)		
<b>Density</b>	57 pcs./ft. (200/m)			57 pcs./ft. (200/m)		
<b>Operating Temperature</b>	Ambient air temperature: -13°F to 104°F (-25°C to 40°C) Relative humidity: 50% max at 104°F (40°C); 90% max at 68°F (20°C)					
<b>*NOTE: For copper wire only</b>						

<b>Accessories</b>							
	Part Number	Pcs/Pkg	Price/Pkg	Part Number	Pcs/Pkg	Price/Pkg	
<b>35 mm DIN Rail</b>	<b>DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)</b>			10	various		
	<b>DN-R35S1-2 (7.5 mm) or DN-R35HS1-2 (15 mm)</b>			2	various		
<b>End Bracket</b>	<b>DN-EB35</b>			50	<--->		
	<b>DN-EB35MN</b>			20	<--->		
	<b>DN-EB35-A or DN-QEB35</b>			50	various		
	<b>DN-EB35-A-10 or DN-QEB35-10</b>			10	various		
<b>End Cover</b>	<b>DN-EC14S</b>			25	<--->		
<b>Jumpers</b>	<b>/ 2 pole Blue</b>	<b>DN-2JL14B</b>			100	<--->	
	<b>/ 3 pole Blue</b>	<b>DN-3JL14B</b>			100	<--->	
	<b>/ 4 pole Blue</b>	<b>DN-4JL14B</b>			100	<--->	
	<b>/ 12 pole Blue</b>	<b>DN-12JL14B</b>			10	<--->	
	<b>/ 2 pole Red</b>	<b>DN-2JL14</b>			100	<--->	
	<b>/ 3 pole Red</b>	<b>DN-3JL14</b>			100	<--->	
	<b>/ 4 pole Red</b>	<b>DN-4JL14</b>			100	<--->	
	<b>/ 12 pole Red</b>	<b>DN-12JL14</b>			10	<--->	
<b>Marking Tags</b>	<b>DN-LAT series</b>			500	<--->		
<b>Angled Support Bracket</b>	<b>DN-ASB1</b>			50	<--->		

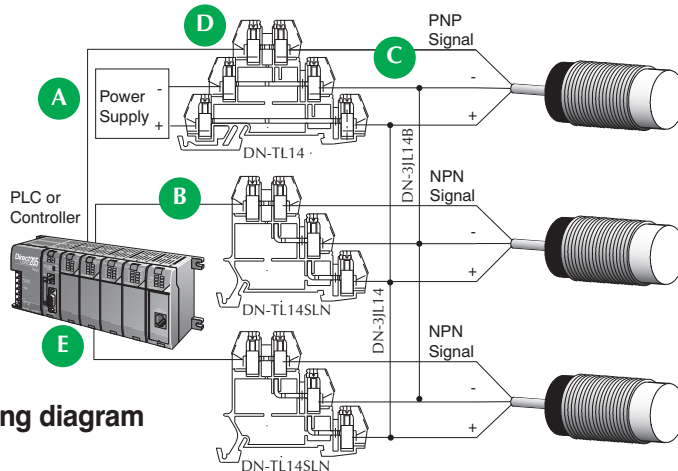
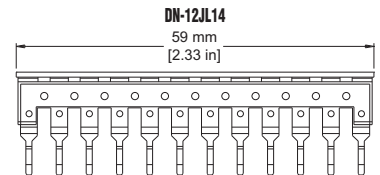
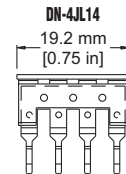
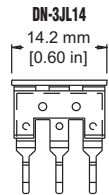
DN-TL14SLP



DN-TL14SLN



**Screwless, plug-in, insulated jumpering system**



**Sensor wiring diagram**

For more information on accessories, see the **DINnectors Accessories** section of this chapter.

# Marking Accessories



DN-LB (blank) shown above



DN-LAB (blank) shown on left; part of DN-LA100 on right

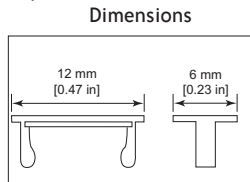


DN-LTA marker shown top; DN-LT60 marker shown middle; DN-LTGND shown bottom

## DN-L

**Fits terminal block types:** All except, **Screwless DINnectors**, DN-T12-A, DN-M10-A, DN-MG, and DN-TL series  
**Material:** Thermoplastic with heat embossed black print

- Note:
- The marking sequence of 50 tags (i.e. 101-150) is printed 10 times in each package of 500 tags.
  - The DN-L tags fit all **DINnectors** 6mm wide and wider.
  - The DN-L tags fit all **DINnectors** 5mm wide and wider but will leave a gap between tags on blocks wider than 5mm.

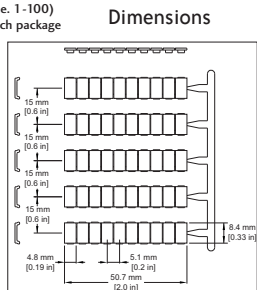


Marking Sequence	Part#	Pcs/Pkg	Price
1-50	DN-L50	500	<--->
51-100	DN-L100	500	<--->
101-150	DN-L150	500	<--->
151-200	DN-L200	500	<--->
201-250	DN-L250	500	<--->
251-300	DN-L300	500	<--->
301-350	DN-L350	500	<--->
351-400	DN-L400	500	<--->
401-450	DN-L450	500	<--->
Blank	DN-LB	500	<--->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LS	500	<--->

## DN-QL

**Fits terminal block types:** Screwless  
**Material:** Thermoplastic with heat embossed black print. Packaged 100 labels per card, and five cards per box.

- Note:
- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.

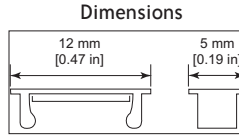


Marking Sequence	Part #	Pcs/Pkg	Price
1-100	DN-QL100	500	<--->
101-200	DN-QL200	500	<--->
201-300	DN-QL300	500	<--->
301-400	DN-QL400	500	<--->
401-500	DN-QL500	500	<--->
Blank Tags	DN-QLB	500	<--->

## DN-LA

**Fits terminal block types:** DN-T12-A series  
**Material:** Thermoplastic with heat embossed black print

- Note:
- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.
  - The DN-T12-A series is 5mm wide, so the 6mm wide DN-L tags do not fit these blocks.
  - The DN-LA tags fit all **DINnectors** 5mm wide and wider but will leave a gap between tags on blocks wider than 5mm.

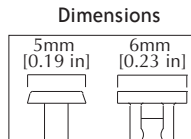


Marking Sequence	Part#	Pcs/Pkg	Price
1-100	DN-LA100	500	<--->
101-200	DN-LA200	500	<--->
201-300	DN-LA300	500	<--->
301-400	DN-LA400	500	<--->
Blank Tags	DN-LAB	500	<--->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LAS	500	<--->

## DN-LAT

**Fits terminal block types:** Triple level  
**Material:** Thermoplastic with heat embossed black print

- Note:
- The marking sequence (i.e. 1-100) is printed five times in each package of 500 tags.

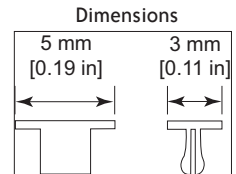


Marking Sequence	Part#	Pcs/Pkg	Price
1-100	DN-LAT100	500	<--->
101-200	DN-LAT200	500	<--->
201-300	DN-LAT300	500	<--->
301-400	DN-LAT400	500	<--->
Blank Tags	DN-LATB	500	<--->
L1, L2, L3, L, N, GND, +, -, COM, COM*	DN-LATS	500	<--->

## DN-LT

**Fits terminal block types:** All except **Screwless** (see DN-QL series)  
**Material:** Thermoplastic with heat embossed black print

- Note:
- These marking tags allow the flexibility of creating custom marking sequences on site.
  - The DN-M10-A support a maximum of three digits (tags), while other **DINnectors** support up to four digits (tags).



Marking Sequence	Part#	Pcs/Pkg	Price
1-5	DN-LT15	100	<--->
6-0	DN-LT60	100	<--->
1	DN-LT1	100	<--->
2	DN-LT2	100	<--->
3	DN-LT3	100	<--->
4	DN-LT4	100	<--->
5	DN-LT5	100	<--->
6	DN-LT6	100	<--->
7	DN-LT7	100	<--->
8	DN-LT8	100	<--->
9	DN-LT9	100	<--->
0	DN-LT0	100	<--->
Unprinted	DN-LTBINK	100	<--->
A	DN-LTA	100	<--->
B	DN-LTB	100	<--->
C	DN-LTC	100	<--->
D	DN-LTD	100	<--->
E	DN-LTE	100	<--->
F	DN-LTF	100	<--->
G	DN-LTG	100	<--->
H	DN-LTH	100	<--->
I	DN-LTI	100	<--->
J	DN-LTJ	100	<--->
K	DN-LTK	100	<--->
L	DN-LTL	100	<--->
M	DN-LTM	100	<--->
N	DN-LTN	100	<--->
-	-	-	-
P	DN-LTP	100	<--->
Q	DN-LTQ	100	<--->
R	DN-LTR	100	<--->
S	DN-LTS	100	<--->
T	DN-LTT	100	<--->
U	DN-LTU	100	<--->
V	DN-LTV	100	<--->
W	DN-LTW	100	<--->
X	DN-LTX	100	<--->
Y	DN-LTY	100	<--->
Z	DN-LTZ	100	<--->
±	DN-LTGND	100	<--->
+	DN-LTPOS	100	<--->
-	DN-LTNEG	100	<--->
~	DN-LTAC	100	<--->
=	DN-LTDC	100	<--->

Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

Part # Index

# DINnectors Accessories – Marking

## Terminal Marking Accessories



DN-EMLBL1

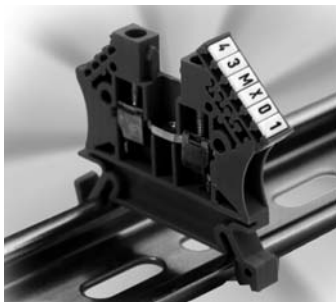


DN-EMLBL2



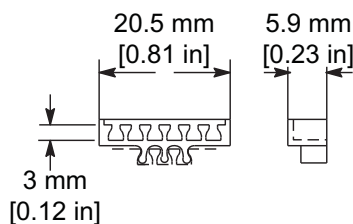
DN-EMLBL3

Part #	Description	For Use With	Pcs/Pkg	Price Each
<b>DN-EMLBL1</b>	Blank labels	DN-EMPEG1 pin protectors for DN-xEMXxx plug-in terminal blocks	100	<--->
<b>DN-EMLBL2</b>	Labels printed 1 – 12		100	<--->
<b>DN-EMLBL3</b>	Labels printed 13 – 24		100	<--->



DN-MTA marking tag adapter

### DN-MTA dimensions



Part#	Description	Pcs/Pkg	Price Each
<b>DN-MTA</b>	Marking tag adapter holds up to six DN-LT tags	50	<--->

**Note:**  
DN-MTA adapter does not fit DN-T12-A terminal blocks.

## Marking Pen – for terminal and wire marking tags

- Permanent
- Smudge-proof
- Waterproof
- Weatherproof
- Lightfast (won't fade)
- Dries in seconds (excellent for left-handed users)
- Dry-safe (pen can be left uncapped for days without drying out)
- Low odor ink

Part#	Description	Pcs/Pkg	Price Each
<b>DN-MP</b>	Indelible black ink marking pen	1	<--->



Marking pen

## Wire Marking Accessories



DN-WMTAG1 wire tags & DN-WM-x wire tag holders

Part #	Description	For Use With	Pcs/Pkg	Price Each
<b>DN-WMTAG1</b>	wire tag – blank	all DN-WM-x wire tag holders	525	<--->
<b>DN-WM-1</b>	wire tag holder, clear, 12 mm length, 0.051–0.118 in diameter; for 22–16 AWG wire	DN-WMTAG1	200	<--->
<b>DN-WM-2</b>	wire tag holder, clear, 12 mm length, 0.098–0.196 in diameter; for 16–11 AWG wire		200	<--->
<b>DN-WM-3</b>	wire tag holder, clear, 12 mm length, 0.157–0.393 in diameter; for 13–5 AWG wire		100	<--->
<b>DN-WM-4</b>	wire tag holder, clear, 12 mm length, 0.314–0.629 in diameter; for 5 AWG wire		100	<--->