DINnectors® Thermocouple Terminal Blocks

- 35mm DIN-rail mountable
- UL E179129
- CE (EN 60947-1/ EN 60947-7-1)

DN-THERM1 (open) –
Series: EURO TC - 50 Volt

DN-THERM2 (open)
Series: EURO TC - 300 Volt

DN-THERMx
(shown closed)

Ordering Information

Color	Part Number	Qty	Price	Part Number	Qty	Price
Gray	DN-THERM1	50	$224.00	DN-THERM2	50	$224.00
	DN-THERM1MN	10	$54.00	DN-THERM2MN	10	$50.00

Technical Specifications

Stripping Length	20mm [0.79 in]			20mm [0.79 in]		
Tightening Torque	0.099 N·m [0.875 lb·in]			0.099 N·m [0.875 lb·in]		
UL Approval*	50V AC/DC	–	30-20 AWG	300V	10A	20-16 AWG
Operating Temperature	Ambient air temperature: -20 to 105°C [-4 to 221°F] Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F]					
SCCR Rating	10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components					
CE Conformity	CE (EN 60947-1 / EN 60947-7-1)					
Agency File #	UL E179129					

Accessories

End Cover			Included			
35mm DIN Rail	7.5 mm high	DN-R35S1	10	$39.00	DN-R35S1	10	$39.00
		DN-R35S1-2	2	$11.00	DN-R35S1-2	2	$11.00
	15mm high	DN-R35HS1	10	$68.00	DN-R35HS1	10	$68.00
		DN-R35HS1-2	2	$16.50	DN-R35HS1-2	2	$16.50
End Brackets		DN-EB35	50	$74.00	DN-EB35	50	$74.00
		DN-EB35MN	20	$34.50	DN-EB35MN	20	$34.50
		DN-EB35-A	50	$52.50	DN-EB35-A	50	$52.50
		DN-EB35-A-10	10	$13.00	DN-EB35-A-10	10	$13.00
		DN-QEB35	50	$47.00	DN-QEB35	50	$47.00
		DN-QEB35-10	10	$12.50	DN-QEB35-10	10	$12.50
Angled Support Bracket		DN-ASB1	50	$107.00	DN-ASB1	50	$107.00
Marking Tags		DN-L or DN-LT series	500/100	various	DN-L or DN-LT series	500/100	various

*Copper wire only
DN-THERM1 has no assigned amp rating; intended for use with thermocouple wires only.
For more information on accessories, see the DINnectors Accessories section of this chapter.

Thermocouple terminal blocks are designed with only one screw clamp to provide suitable connections to thermocouple sensors. The DN-THERM1 and DN-THERM2 clamping yoke terminal blocks have been designed to accept any type of thermocouple lead connection within their rated wire size ranges. The thermocouple leads are simply stripped of their insulation to 20mm (0.79"), and then inserted into the terminal block where the two wires overlap. The leads are clamped together on both sides of the terminal block, resulting in an excellent electrical connection to the thermocouple without the need for any other compensation metals/contacts.

DN-THERM1 / DN-THERM1MN

42.0 mm [1.65 in]
6.0 mm [0.24 in]
27.5 mm [1.08 in]

DN-THERM2 / DN-THERM2MN

42.0 mm [1.65 in]
6.0 mm [0.24 in]
27.5 mm [1.08 in]

DN-THERMx operation

Clamping Yoke
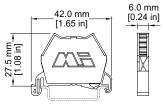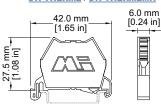
Overlap of thermocouple wires allows for universal connections.

DINnectors® Accessories

Marking Tags Cross Reference Charts - Screw-type

DINnector Marking Tags Cross Reference - Screw-type					
Block Type	**DN-L**	**DN-LA**	**DN-LT**	**DN-LAT**	**DN-EMLBL**
DN-T12	–	X	X	–	–
DN-T10	X	–	X	–	–
DN-T8	X	–	X	–	–
DN-T6	X	–	X	–	–
DN-T4	X	–	X	–	–
DN-T1/0	X	–	X	–	–
DN-T3/0	X	–	X	–	–
DN-D10	X	–	X	–	–
DN-D10X	X	–	X	–	–
DN-D10LED	X	–	X	–	–
DN-D10DR	X	–	X	–	–
DN-TL14	–	–	–	X	–
DN-THERM	X	–	X	–	–
DN-EMXM1	–	X	X	–	X
DN-EMXDV	–	X	X	–	X
DN-M10	–	–	X	–	–
DN-MG10	–	–	X	–	–
DN-G10	X	–	X	–	–
DN-G8	X	–	X	–	–
DN-G6	X	–	X	–	–
DN-G4	X	–	X	–	–
DN-G1/0	X	–	X	–	–
DN-F6	X	–	X	–	–
DN-F10	X	–	X	–	–
DN-DIS2	–	X	X	–	–
DN-DIS4	X	–	X	–	–
DN-FE2	–	X	X	–	–
DN-FE4	X	–	X	–	–
DN-DIS10	X	–	X	–	–
DN-KBD12	–	X	X	–	–

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DINnectors® Accessories

Marking Tags
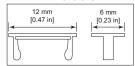
Marking Tags DN-L Series			
Part Number	*Marking Sequence*	*Qty*	*Price*
DN-L50	1-50	500	$61.50
DN-L100	51-100	500	$61.50
DN-L150	101-150	500	$61.50
DN-L200	151-200	500	$61.50
DN-L250	201-250	500	$61.50
DN-L300	251-300	500	$61.50
DN-L350	301-350	500	$61.50
DN-L400	351-400	500	$61.50
DN-L450	401-450	500	$61.50
DN-LB	Blank	500	$42.00
DN-LS	L1, L2, L3, L, N, GND, +, -, COM,COM*	500	$61.50

Dimensions

12 mm [0.47 in]   6 mm [0.23 in]

- The marking sequence of 50 tags (i.e. 101-150) is printed 10 times in each package of 500.
- The DN-L tags fit all DIN*nector*s 6mm wide and wider.
- There will be a gap between tags on blocks wider than 6mm.
- Material: Thermoplastic with heat embossed black print.

Marking Tags DN-LA Series			
Part Number	*Marking Sequence*	*Qty*	*Price*
DN-LA100	1-100	500	$61.50
DN-LA200	101-200	500	$61.50
DN-LA300	201-300	500	$61.50
DN-LA400	301-400	500	$61.50
DN-LAB	Blank Tags	500	$61.50
DN-LAS	L1, L2, L3, L, N, GND, +, -, COM,COM*	500	$61.50

Dimensions

12 mm [0.47 in]   5 mm [0.19 in]

- The marking sequence of 100 tags (i.e. 1-100) is printed five times in each package of 500.
- The DN-LA tags fit all DIN*nector*s 5mm wide and wider. There will be a gap between tags on blocks wider than 5mm.
- Material: Thermoplastic with heat embossed black print.

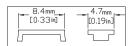| Marking Tags DN-LAT Series			
Part Number	*Marking Sequence*	*Qty*	*Price*
DN-LAT100-A	1-100	500	$54.00
DN-LAT200-A	101-200	500	$54.00
DN-LAT300-A	201-300	500	$54.00
DN-LAT400-A	301-400	500	$54.00
DN-LAT500-A	401-500	500	$54.00
DN-LAT600-A	501-600	500	$54.00
DN-LATB-A	Blank Tags	500	$39.00
DN-LATS-A	L1, L2, L3, L, N, +,-, COM,COM*	500	$54.00

Dimensions

5mm [0.19 in]   6mm [0.23 in]

- The marking sequence of 500 tags (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.

Marking Tags DN-QL Series			
Part Number	*Marking Sequence*	*Qty*	*Price*
DN-QL100	1-100	500	$47.00
DN-QL200	101-200	500	$47.00
DN-QL300	201-300	500	$47.00
DN-QL400	301.400	500	$47.00
DN-QL500	401-500	500	$47.00
DN-QLB	Blank Tags	500	$39.50
DN-QLS	L1, L2, L3, L, N, +,-, COM,COM*	500	$54.00

Dimensions

8.4 mm [0.33 in]   4.7mm [0.19 in]

- The marking sequence of 500 (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.
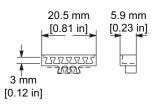
⬢DIN*nectors*® Accessories

Marking Tags continued

Marking Tags DN-LT Series			
Part Number	**Marking Sequence**	**Qty**	**Price**
DN-LT15	1-5	100	$11.00
DN-LT60	6-0	100	$11.00
DN-LT1	1	100	$11.00
DN-LT2	2	100	$11.00
DN-LT3	3	100	$11.00
DN-LT4	4	100	$11.00
DN-LT5	5	100	$11.00
DN-LT6	6	100	$11.00
DN-LT7	7	100	$11.00
DN-LT8	8	100	$11.00
DN-LT9	9	100	$11.00
DN-LT0	0	100	$11.00
DN-LTBLNK	Unprinted	100	$11.00
DN-LTA	A	100	$11.00
DN-LTB	B	100	$11.00
DN-LTC	C	100	$11.00
DN-LTD	D	100	$11.00
DN-LTE	E	100	$11.00
DN-LTF	F	100	$11.00
DN-LTG	G	100	$11.00
DN-LTH	H	100	$11.00
DN-LTI	I	100	$11.00
DN-LTJ	J	100	$11.00
DN-LTK	K	100	$11.00
DN-LTL	L	100	$11.00
DN-LTM	M	100	$11.00
DN-LTN	N	100	$11.00
–	–	–	–
DN-LTP	P	100	$11.00
DN-LTQ	Q	100	$11.00
DN-LTR	R	100	$11.00
DN-LTS	S	100	$11.00
DN-LTT	T	100	$11.00
DN-LTU	U	100	$11.00
DN-LTV	V	100	$11.00
DN-LTW	W	100	$11.00
DN-LTX	X	100	$11.00
DN-LTY	Y	100	$11.00
DN-LTZ	Z	100	$11.00
DN-LTGND	⏚	100	$11.00
DN-LTPOS	+	100	$11.00
DN-LTNEG	-	100	$11.00
DN-LTAC	~	100	$11.00
DN-LTDC	=	100	$11.00

Dimensions

5 mm [0.19 in]   3 mm [0.11 in]

- These marking tags allow the flexibility of creating custom marking sequences on site.
- The DN-M series supports a maximum of three digits (tags), while other DIN*nectors* support up to four digits (tags).
- Material: Thermoplastic with heat embossed black print.

DN-MTA marking tag adapter

DN-MTA dimensions

20.5 mm [0.81 in]   5.9 mm [0.23 in]

3 mm [0.12 in]

Part Number	Description	Qty	Price
DN-MTA	Marking tag adapter holds up to six DN-LT tags	50	$16.00

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

Terminal Blocks

DINnectors® Accessories

Terminal Marking Accessories

DN-EMLBL1

DN-EMLBL2

DN-EMLBL3

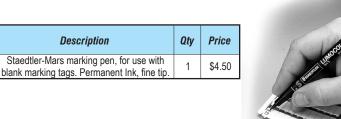| Part Number	Description	For Use With	Qty	Price
DN-EMLBL1	Blank labels	DN-EMPEG1 pin protectors for DN-xEMXxx plug-in terminal blocks	100	$10.00
DN-EMLBL2	Labels printed 1 – 12		100	$14.50
DN-EMLBL3	Labels printed 13 – 24		100	$14.50

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 Number	Description	Qty	Price
DN-MP	Staedtler-Mars marking pen, for use with blank marking tags. Permanent Ink, fine tip.	1	$4.50

Marking pen

Wire Marking Accessories

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

Part Number	Description	For Use With	Qty	Price
DN-WMTAG1	Wire tag – blank	all DN-WM-x wire tag holders	525	$66.00
DN-WM-1	Wire tag holder, clear, 12mm length, 0.051–0.118 in diameter; for 22–16 AWG wire	DN-WMTAG1	200	$14.00
DN-WM-2	Wire tag holder, clear, 12mm length, 0.098–0.196 in diameter; for 16-11 AWG wire		200	$14.00
DN-WM-3	Wire tag holder, clear, 12mm length, 0.157–0.393 in diameter; for 13–5 AWG wire		100	$9.00
DN-WM-4	Wire tag holder, clear, 12mm length, 0.314–0.629 in diameter; for 5AWG wire		100	$8.50