

Reference: September 2017 Guide by Miles Nicholson

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Creating a Multi-deck Terminal Association

AutoCAD Electrical

Due to space or design requirements, it may be required to have a multi-level terminal rather than two or three separate terminals.

However in the schematic, these are often shown as individual terminals because of the design layout. This document explains how to achieve this from within the schematic rather than the terminal editor.

A good example is an emitter circuit which may have terminal connections to the +, - and Com connections. An example of this is shown below:



There are many types of terminals but we are going to use a round terminal with terminal number. The user has the option of defining a separate terminal number for each level as well.

Place a terminal down on the wire connecting to the + Define the information as shown and then select *Block Properties*

Insert / Edit Termir	nal Symbol		×
Terminal		Modify Properties/Associations	
Symbol Name: HT	0002	Add/Modify Pick:	>>
Installation:	MC	Break Out	Block Properties
	Browse	Properties/Associations	
Location:	CP3	Levels: 1	
	Browse	Label Number PinL PinR Re	ference
Tag Strip:		SINGLE 4	2,50
X1	< >		
Number:			
< <	> Pick>>		
Project List			
Installation	Location	Tag Strip Num	bers Used
MC MC MC	CP3 CP6 CP	X1 X1 X2	
	OK-Repeat	OK Cancel Help Details >	>











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Manufacture	r: WEIDMULLER		
Catalog Num	. IU2000000		
Assembly Co	de:		
Laurelau			
Leveis:		+04	X
Ľ		[00]	leal
	Level Description	Wires Per Connection	Pin Left Pin Rig
1	+	2	
2	-	2	
3	С	2	

Define the levels as shown

Select OK

The 1st wire connecting to the + of the emitter will be connected to the top deck of the terminal as a default.

Place another round terminal with terminal number on the wire connecting to the -

< >

The terminal number will increment up to the next number BUT you can force the value to be the same as

the first terminal by using the

Under Modify Properties / Associations, you can either select Pick>> or Add/Modify...

If you select Pick>>>, pick the "master" terminal connecting to the + of the emitter and the second terminal will assume the second deck of the terminal.

If you select Add/Modify..., you can highlight the terminal on the left you wish to associate, then define which level of the terminal and then finally Associate

Multi deck terminals are easy to spot as they have a value in brackets after the terminal number greater than 1 e.g. 4.. (3)













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MC		Label	Number	Pinl	PinR	Reference
110	1	20201				norenene
Location:				_		
CP3						
Tag Strip:						
Number:	1					
			Move Up	Mov	e Down	
	1	+	4			2,5C
	3	С				
□ - ∰ = MC+CP3-X1 (5) - ✓ 1.# (1) - ✓ 2.# (1)						
□-∰ =MC+CP3×1 (5)						
			Ass	ociate		•
=			Ass	ociate		•

Select OK to save the changes

Repeat the process for the terminal connected to the Com of the emitter.

Although graphically you seem to have three terminals shown in the schematic, the bill of materials will only show one terminal and the Terminal Editor will only show one terminal.

If you select ^{Editor} Terminal Editor, the different levels are shown to the right of the dialogue. You can manipulate "in" and "out" information by the *Destination* tools.

			400VAC			4			400VAC	BN	B1	CP3	MC
- · ·													
1.0			400VAC		4			400VAC	BU	B1	CP3	MC	
L 2				1		4							
L 3						4			400VAC				
									400VAC	ВК	B1	CP3	MC





