

Technical Bulletin

TB 0361 – 2 Way LV Link Panel Replacement for Federal switches in S/L Columns

Date: 13/11/2024

Content Owner: Kieran Shanahan – Engineering Delivery Manager

Approved By: Peter Langdon – Head of Asset Planning & Performance

Purpose

To inform stakeholders of the introduction of a LV 2-way link panel to replace failing 'Federal switches' used in enlarged base street light columns.

Background

Endeavour Energy inherited enlarged base streetlight columns, throughout the Greater Western Sydney Region, from Prospect Electricity. Many of these columns contain 'federal switch' type panels which are now approaching end of life. As no suitable replacement was commercially available in the market, Endeavour Energy engaged with a manufacturer to develop a LV 2-way link panel.

Actions

A trial was successfully conducted at column 6552 at Demyrick Ave Lurnea on 16th October 2023 by the Hoxton Park Field Crew using existing installation procedures. In general, feedback from the trial was positive and key learnings observed during the installation have led to further improvements to the design of the 2-way LV link panel.

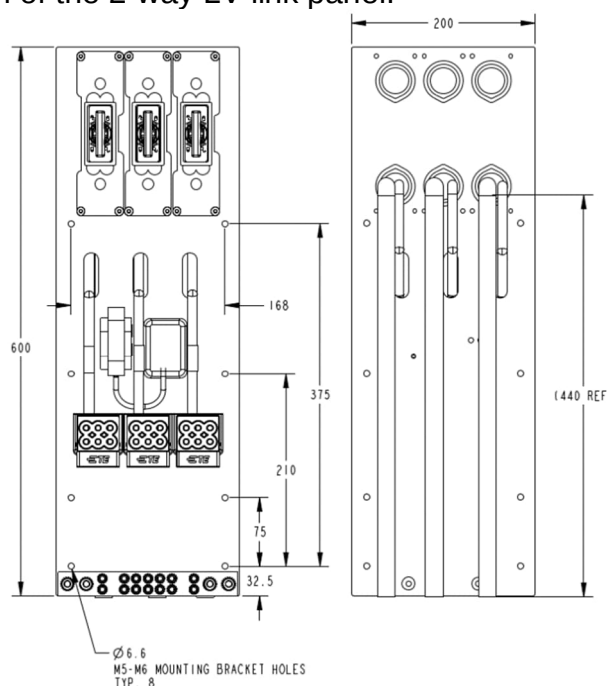


Figure 1: New LV 2-Way Link Panel

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10 units of the 2-way LV link panels, TE part number TAP10419, have been delivered and spread across Kings Park, Windsor, Penrith, Hoxton Park and Parramatta Depots as part of the pilot program. This will allow field crews to provide feedback and for further improvement if required.

The following stock code has been created:

Item Description	Supplier Part Number	Material Number
PANEL SL,PWR DIST,URD COLUMN,2WAY LINK	TAP10419	1000010600

Installation Summary

Step 1:	Lift streetlight column from ragbolt and lower to ground flat. 
Step 2:	Disconnect existing services and distribution cables from federal switch board. Remove board from angle bracket.  Front of existing 'Federal Switch' Panel Rear of existing 'Federal Switch' Panel

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Step 3:	Check condition of the angle brackets and replace if required. Mount new LV link panel TAP10419 to bracket. Terminate services and distribution cables: A photograph showing the front of a yellow LV link panel. It features three black switch units at the top and a terminal block at the bottom with red and black wires connected. Front of LV Link Panel A photograph showing the rear of a yellow LV link panel. It has three large black cable entries at the top, with several thick black cables plugged in. Some cables have red and blue markings. Rear of LV Link Panel
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Implementation

The contents of this Technical Bulletin shall be implemented immediately.

Impacted Standards

The contents of this technical bulletin will be included in the next update of:

- MCI 0006

Contacts

For further information contact:

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