

BIM Object Guide

Manual Control Points (MCPs)

Version 1.0

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1.0 Introduction

SE Controls are committed to fulfilling the requirements of Level 2 BIM as mandated by the UK Government from April 4th 2016 for all centrally funded contracts. Furthermore we intend to produce high quality, fit for purpose content by utilising our relationships with Architects, Specifiers & BIM end users & determining the specific requirements and issues they experience with BIM content & processes.

2.0 Adding BIM objects into Autodesk Revit

2.1 Loading SE Controls MCP objects into Autodesk Revit Projects

Once you have downloaded the SE Controls MCP BIM object you can load it into your project like any other generic family. To insert the MCP family into a project you will need a wall as a host to which the MCP is to be fixed.

Then go to "insert-->Load Family-->choose the downloaded family". Now you can find the actuator family under "Electrical Equipment" family type in "Families" in the "Project Browser" window.

Since the MCP's are built as wall based objects it will be mounted directly on to the wall just like a window, however the orientation may need changing, this can be done by adjusting the horizontal and vertical reference dimensions.



Note - Products are to be installed at 1800mm vertical distance from floor level to comply with SE Controls Residential Guidelines.

2.2 OS2 MCP

After loading the object into a project click on any part of the MCP, at this point the 'Properties' panel should appear on the left hand side of the screen, secondly select 'Edit Type' within the 'Type properties' window that appear, the user can select the product type required.

There are 2 different types of OS2 MCP, Tamperproof and Standard.

2.2.1 OS2 Tamperproof MCP

This type of MCP only has the option to reset the activated vent and also has the ability to display the system and vent status through 3 LED's. A system can have a combination of standard and tamperproof MCP's, please see link for more information - <http://www.secontrols.com/product-catalogue/sensor-switch/tamper-proof-mcp-os2-osloop/features/>



2.2.2 OS2 Standard MCP

This type of MCP is designed to allow the user to manually override the smoke control system via lifting the clear panel and pressing the open button, the vent can also be reset via the MCP.

The MCP has the ability to display the system and vent status through the 3 LED's. A system can have a combination of standard and tamperproof MCP's, please see link for more information - <http://www.secontrols.com/product-catalogue/sensor-switch/os2-manual-control-point-mcp/features/>



2.3 OSloop MCP

After loading the object into a project click on any part of the MCP, at this point the 'Properties' panel should appear on the left hand side of the screen, secondly select 'Edit Type' within the 'Type properties' window that appear, the user can select the product type required.

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PLEASE NOTE ALL MCP VARIANTS ARE FOR SMOKE VENTILATION ONLY.

3.0 Properties

3.1 COBie

Construction Operations Building Information Exchange (COBie) data is available for all SE Controls BIM objects. This data set forms a key part of Level 2 BIM requirements for UK Government contracts.

3.2 NBS_General

NBS_General data is available for all SE Controls BIM objects; this data set is a requirement of the NBS BIM Object Standard.

3.3 IFC

IFC data is available for all SE Controls BIM objects; IFC is an open-source data format that is fast becoming the industry standard for rich data exchanges.

3.4 Other (Manufacturer/Product Specific)

SE Controls has produced product specific data fields for information not applicable to other data sets such as COBie but still of importance to a BIM end user.