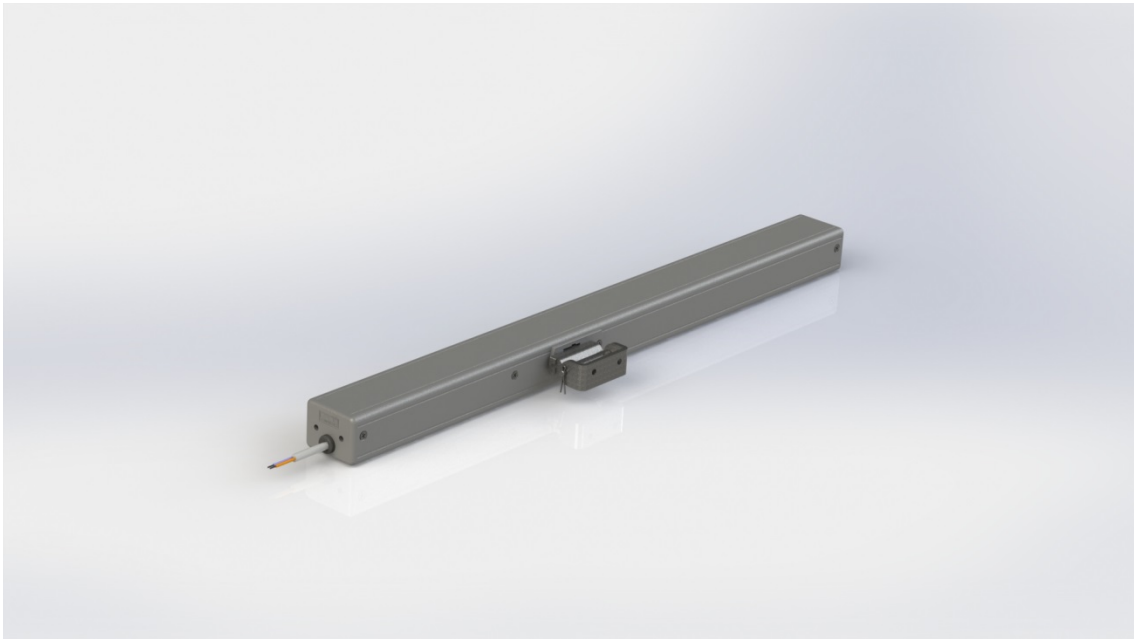
BIM Object Guide

Actuators

Version 1.0

June 2016



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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.

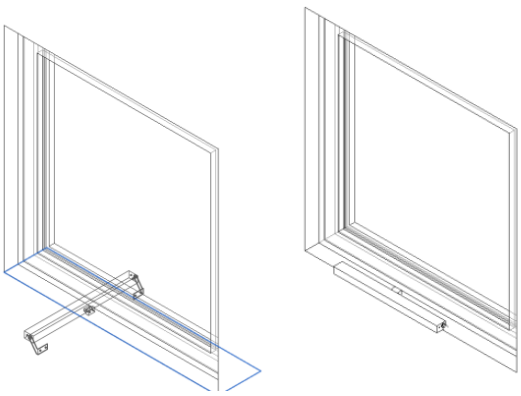
2.0 Adding BIM Objects into Autodesk Revit

2.1 Loading SE Controls actuator objects into Autodesk Revit projects

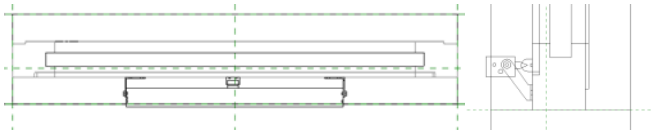
To insert an SE Controls actuator family object into a project you will require a window as a host to which the actuator is to be fixed.

Select "insert-->Load Family-->choose the downloaded family". The actuator family will now be available under "Electrical Equipment" family type in "Families" in the "Project Browser" window.

It will then be possible to drag the actuator into the family as shown in the images below, as you hover over the window frame where you are placing it, the actuator object may change the orientation (image:1) and you can easily flip it to correct it by pressing "space bar" and then click when you see your desired orientation(image:2).



Once in the required position, lock the actuator by aligning the trunnion and bracket faces with the respective reference line using the "Align" tool as shown below.

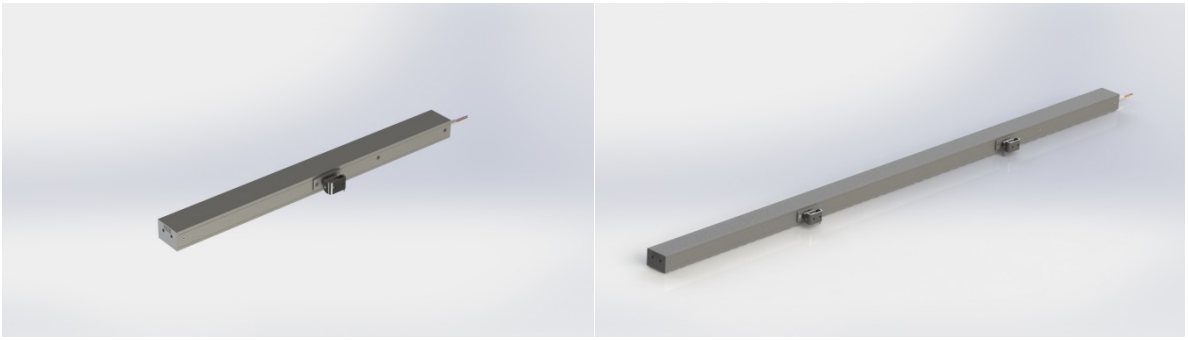


2.2 Actuator Types

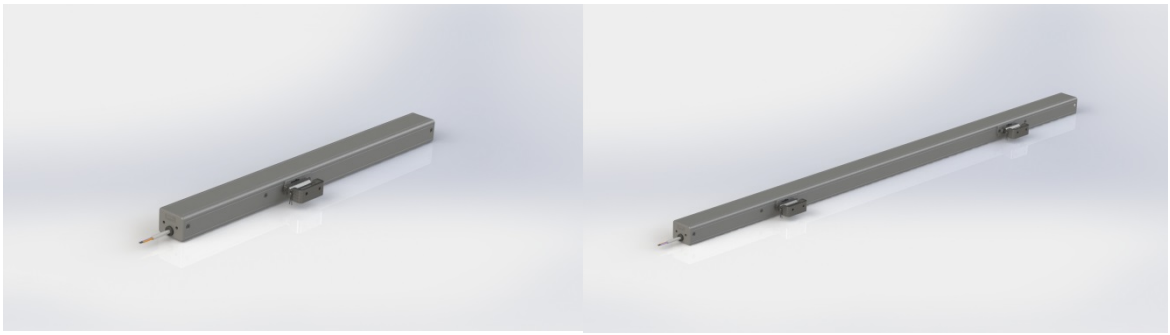
SE Controls have created objects of our core range of chain actuators, offering solutions for smoke ventilation, environmental ventilation & window automation.

PLEASE NOTE – SECO N 24 25 range products are suitable for environmental ventilation only. SECO Ni 24 40 range products are suitable for smoke & environmental ventilation.

SECO N 24 25



SECO Ni 24 40



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.