ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)

L21396 - POINT HEATER ELEMENT

Learning Legacy Document

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1 Introduction

1.1 Asset Details

Class Code:	L21396
Class Name:	Point Heater Element
Class Lineage:	Construction Products>Complete construction entities and components>Civil engineering works products>Railway products>Other railway components>Point Heater Element

1.2 Description

Point Heaters Elements are electrical heating conductors that are attached to the switch rails of a Switch and Crossing unit. Their purpose is to stop the switch rails from freezing to the stock rails during cold weather stopping the points from being thrown.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

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2 Asset Tag Identification Rules

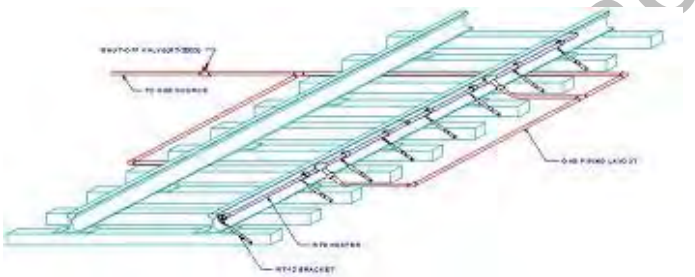
Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. CR076-BAF-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

2.1 Example Images



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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	**Base Unit or Formula**	**Value Type** *(See Below)*	**Decimal Places** *(nu Only)*	**Defined Values List** *(pd only)*	**Description**
Cross Sectional Area (Square Millimetres)	Square Millimetres	NU	0		Cross section of the conductor
From Meterage (Metres)	Metres	NU	2		The location of the start of the asset based on overall meterage. (For points asset this will be the same as the “To” Meterage)
Heater Output Power (kW/m)	kW/m	NU	2		The total Heater Output Power
Input Voltage (Volts)	Volts	NU	0		Working voltage
Insulated		PD		Yes No	Whether or not the point heater is insulated
Self-Regulating		PD		Yes No	Whether or not the point heater is self-regulating
Length (Metres)	Metres	NU	2		Length of the heater elements
Operating	Degrees	NU	2		Minimum operating temperature

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Attribute Name	**Base Unit or Formula**	**Value Type** *(See Below)*	**Decimal Places** *(nu Only)*	**Defined Values List** *(pd only)*	**Description**
Temperature Minimum (Degrees Celsius)	Celsius				
Point Heater Connection		CH			Description of the connection interface with heater control/LV system
Point Heater Type		PD		Strip Cartridge Pad	The type of point heater
To Meterage (Metres)	Metres	NU	2		The location of the end of the asset based on overall meterage (For points asset this will be the same as the "From" Meterage)
LRS Code		PD		C.EB C.EB.CRW5 C.EB.CR1 C.EB.CR7 C.EB.TBC C.WB C.WB.CRW9 C.WB.CRW6 C.WB.CR2 C.WB.CR5 C.WB.TBA C.WB.TBB CNE.EB CNE.WB CSE.EB CSE.EB.CR11 CSE.WB CSE.EB.CR13 CSE.WB.CR15	The Crossrail Linear Referencing Standard code (CRL1-XRL-O6-STD-CR001-00026) where the asset is located. When the asset is not located on track then non track should be selected. The LRS codes are as follows: C.EB - Central Section Eastbound C.EB.CRW5 - Crossover between W5 and W4 Points C.EB.CR1 - Crossover between C1 and C4 Points C.EB.CR7 - Crossover between C7 and C8 Points C.EB.TBC - Turnback C C.WB - Central Section Westbound C.WB.CRW9 - Crossover between W9 and W8 Points C.WB.CRW6 - Crossover between W6 and W3 Points C.WB.CR2 - Crossover between C2 and C3 Points C.WB.CR5 - Crossover between C5 and C6 Points C.WB.TBA - Turnback A C.WB.TBB - Turnback B CNE.EB - Central Section North East Spur Eastbound CNE.WB - Central Section North East Spur Westbound CSE.EB - Central Section South East Spur Eastbound CSE.EB.CR11 - Crossover between C11 and C12 Points CSE.WB - Central Section South East Spur Westbound CSE.EB.CR13 - Crossover between C13 and C14 Points CSE.WB.CR15 - Crossover between C15 and C16 Points Non Track - Non Track Assets

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Attribute Name	**Base Unit or Formula**	**Value Type** *(See Below)*	**Decimal Places** *(nu Only)*	**Defined Values List** *(pd only)*	**Description**
				Non Track	

pd = Predefined List
da = Date (dd-mm-yyyy)
nu = Numeric
me = Memo (Free text 1GB Limit)
ch = Free text (Max 255 Characters)

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4 Performance Data

This section is to be used to specify the performance data gathered from this Class of asset when in operation. This section will be populated once performance measures have been agreed with Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- Asset Naming Convention Document - CRL1-XR1-Z3-ADDSD-CR001-50413

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8 Crossrail Technical Approvals

Name	Role	Date
Mark Maher	Track	19-Sep-2014

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