ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L78621 – LEAK DETECTION

Document Number: **CRL1-XRL-Z3-ADDSD-CR001-50376**

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Learning Legacy Document

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3.0	18-Apr-2017	[redacted]	[redacted]	[redacted]	Defined Value Added

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1 Introduction

Not Applicable

1.1 Asset Details

Class Code:	L78621
Class Name:	Leak Detection
Class Lineage:	Construction Products>Services>General Purpose and Ancillary Services Products>Measuring, Detection and Control Devices>Plant and Service Controls>Leak Detection

1.2 Description

A Leak Detector is a device that is designed to detect the presence of water and other liquids and provide an alert to prevent damage. A common design is a small cable or device that lies flat on a floor and relies on the detection of electrical conductivity of water. The device sounds an audible alarm when enough water is present to bridge the contacts and are used in occupied areas or where infrastructure is at risk to leak water such as HVAC, water pipes, drain pipes, dehumidifiers or water tanks.

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)

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. C125-TSP-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)

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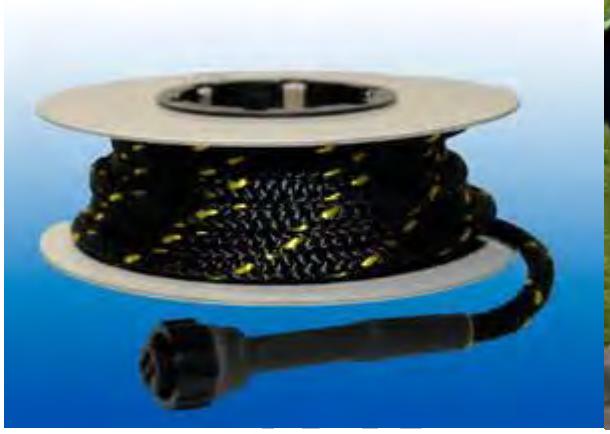
2.1 Example Images



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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
Battery Type		PD		VRLA BS62910-4 AAA	Type of battery used in detection device
Detection Sensor Type		PD		Float switch Non Contact Ultrasonic level sensor Contact ultrasonic level sensor Electrical Capacitance Level Sensor Radar level sensor	Type of sensor used in detection

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Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Leak Detection Usage		PD		Pipe work Tank HVAC Drains Dehumidifiers Other	System that the leak detection is used for to protect

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)
me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the 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 document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- <ADD OTHER REFERENCE DOCUMENTS HERE>

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	17-Oct-2014

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