ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L786141 – Liquid Level Switches

Learning Legacy Document

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Contents

1 Introduction **3**
1.1 Asset Details **3**
1.2 Description **3**
1.3 Related Functions **3**
2 Asset Tag Identification Rules **4**
2.1 Example Images **4**
3 Attributes **6**
3.1 Generic Attributes **6**
3.2 Class Specific Attributes **6**
4 Performance Data **8**
5 Labelling **8**
6 Other Information **8**
7 Reference Material **8**
8 Crossrail Technical Approvals **9**

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1 Introduction

1.1 Asset Details

Class Code:	L786141
Class Name:	Liquid Level Switches
Class Lineage:	Construction Products>Services>General purpose and ancillary services products>Measuring, detection and control devices>General measuring instruments>Liquid Level Switches

1.2 Description

A liquid level switch is a device used to measure the level of liquid in a tank or a sump for control, monitor or alarm purposes.

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

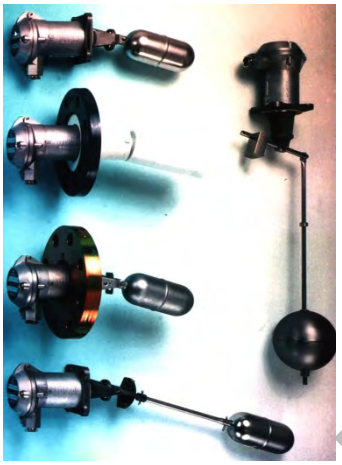
Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031) in the following format:

<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



Side mount liquid level switches

Ultrasonic level sensors

Capacitance Continuous Level Measurement Probes and Switch

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Radar level sensor

Non contact ultrasonic level switch

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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
BMS linked		PD		Yes No	Is it linked to the BMS System?
Detection Sensor Type		PD		Contact Ultrasonic Level Sensor Electrical Capacitance Level Sensor Float Switch Non Contact Ultrasonic Level Sensor Radar Level Sensor	What kind of sensor is used to detect the liquid level?
Input Voltage (Volts)	Volts	NU	0		The operating voltage of the controller
IP Rating		CH			The ingress protection rating of the unit e.g.. IP23 (closed door)`
Cable Length (Metres)	Metres	NU	2		Length of cable from power source e.g. isolator to liquid level switch.

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 - 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
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	19-Sep-2014

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