

IEC 61511 Communications Protocol Assessment

Apollo Fire Detectors Ltd, XP95 and Discovery Protocol Ranges

Manufacturer: Apollo Fire Detectors Ltd
 36 Brookside Rd, Havant PO9 1JR
Product: XP95 and Discovery Protocol Ranges
Model: 55000-775MAR, 58100-971MAR, 55100-940APO, 55100-940APO, 45681-394MAR, 58000-400MAR, 58000-600MAR, 58000-700MAR, 58000-700SIL, 55000-773MAR, 55000-847SIL, 58100-976MAR, 58000-400SIL, 58000-600SIL, 58100-908SIL, 45681-393SIL, 55000-440APO, 55000-640APO

Application: Low Demand Mode Safety Instrumented Function
Applied standard: IEC 61511 Ed1 & IEC 61784-3
Systematic Capability: Suitable up to SIL 2
Applicable report: Environmental Resources Management Ltd Report: G020_PU001 rev. 7

Assessment Route: 2s and 3s
Application restrictions: None

Model No.	Description	Protocol Software and Version
55000-775MAR	Marine Mini Switch Monitor	34100-003SW, rev 2
58100-971MAR	Discovery Manual Call point with Isolator	Integrated as part of 34000-036SW, rev 4
55100-940APO	XP95 Intrinsically Safe Manual Call Point	ASIC
58100-951APO	Weatherproof Manual Call Point with Isolator - Red	Integrated as part of 34000-036SW, rev 4
45681-394MAR	Discovery Marine Sounder Beacon Base	Integrated as part of 34000-095SW, rev 1
58000-400MAR	Discovery Marine Heat Detector	34100-002SW, rev 3
58000-600MAR	Discovery Marine Optical Smoke Detector	34100-002SW, rev 3
58000-700MAR	Discovery Marine Multisensor Detector	34100-002SW, rev 3
58000-700SIL	SIL Discovery Multisensor Detector	34100-002SW, rev 3
55000-773MAR	Marine DIN Rail Zone Monitor	ASIC
55000-847SIL	SIL Input / Output Unit with Isolator	ASIC

Model No.	Description	Protocol Software and Version
58100-976MAR	Discovery Waterproof Manual Call Point with Isolator	Integrated as part of 34000-036SW, rev 4
58000-400SIL	Discovery Heat Detector	34100-002SW, rev 3
58000-600SIL	Discovery Optical Detector	34100-002SW, rev 4
58100-908SIL	Discovery Manual Call Point with Isolator	Integrated as part of 34000-036SW, rev 4
45681-393SIL	Discovery Sounder VID Base with Isolator	Integrated as part of 34000-071SW, rev 8
55000-440APO	XP95 I.S. Heat Detector	34100-011SW, rev 1
55000-640APO	XP95 I.S. Optical Smoke Detector	34100-011SW, rev 1

Note 1: Devices that do not contain protocol software are excluded from this assessment.

The Apollo Fire Detectors Ltd XP95 and Discovery Protocol Ranges have been assessed and are considered capable for use in a low demand mode safety function up to (and including) SIL 2 with regards to Systematic Capability.



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