EARTHING CLAMP
Multipoint factory system

Logic automation and engineering

ECS-RF-MULTI

The LOGIC ECS-RF-MULTI system is designed to include **several control units**, each of which can be connected to a specific earthing point.

Each control unit can be **interfaced to the PLC/DCS** to monitor the status of all earthing systems in real time.

The customised multipoint earthing system can increase safety and productivity in the plant, by ensuring appropriate earthing at various points and by providing efficient central control and supervision.

Compatible clamps:

IS1L in die-cast aluminium for drums and large IBCs.

CLP-MINI in stainless steel for small drums and small metal containers.

CLP-CODE in stainless steel for the coded earthing of mobile tanks

CLP-FIBC in stainless steel for earthing Type C FIBC Big Bags.

CE Ex SIL

TECHNICAL SPECIFICATIONS

Control unit installation area	Panel in Safe Area of dimensions 2100x800x500 mm (L x H x D) containing up to 21 ECS-RF-DIN control units
Temperature range	ECS-RF-DIN modules: -20 °C ≤ T_{amb} ≤ +70 °C
Connection cables	The entire Logic ECS range: 5 m 6-wire coiled cable for Ex i applications 10 m 6-wire coiled cable for Ex i applications 2-wire straight cable with cross-section 0.35 mm², Ø 5 mm, length 3 m, PVC insulation sheath CR-20 reel in AISI 304 with two-wire cable L=20 m
Power supply	AC version (ECS-RF-DIN): 230 Vac, Um=253 V_{rms} DC version (ECS-RF-DIN-DC): 10÷30 Vdc, Um=30 V_{dc} / 253 V_{dc}

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IS1L CLAMP SPECIFICATIONS

Clamp composition	Die-cast aluminium with plastic handle Hardened steel tips
Status display	Via green and red LED on the clamp
Connection area	ATEX Zone 0/20
Operating temperature	-20 °C ≤ T_{amb} ≤ +55 °C
Dimensions (L x H x D)	250 x 110 x 95 mm

CLP-MINI CLAMP SPECIFICATIONS

Clamp composition	AISI 304 stainless steel with carbonitrided tips with a very high hardness
Status display	Via green and red LED on the JB-LED
Connection area	ATEX Zone 0/20
Operating temperature	-20 °C ≤ T_{amb} ≤ +55 °C
Dimensions (L x H x D)	50 x 33 x 140 mm

CLP-CODE CLAMP SPECIFICATIONS

Clamp composition	AISI 304, double tips in alloy steel with carbonitriding treatment
Status display	Via green and red LED on the clamp
Connection area	ATEX Zone 0/20
Operating temperature	-20 °C ≤ T_{amb} ≤ +50 °C
Dimensions (L x H x D)	83 x 64 mm (L x Ø)

CLP-FIBC CLAMP SPECIFICATIONS

Clamp composition	AISI 304 stainless steel Polyamide isolators
Connection area	ATEX Zone 0/20
Operating temperature	-20 °C ≤ T_{amb} ≤ +70 °C
Dimensions (L x H x D)	50 x 33 x 140 mm
Maximum clamp opening	15 mm

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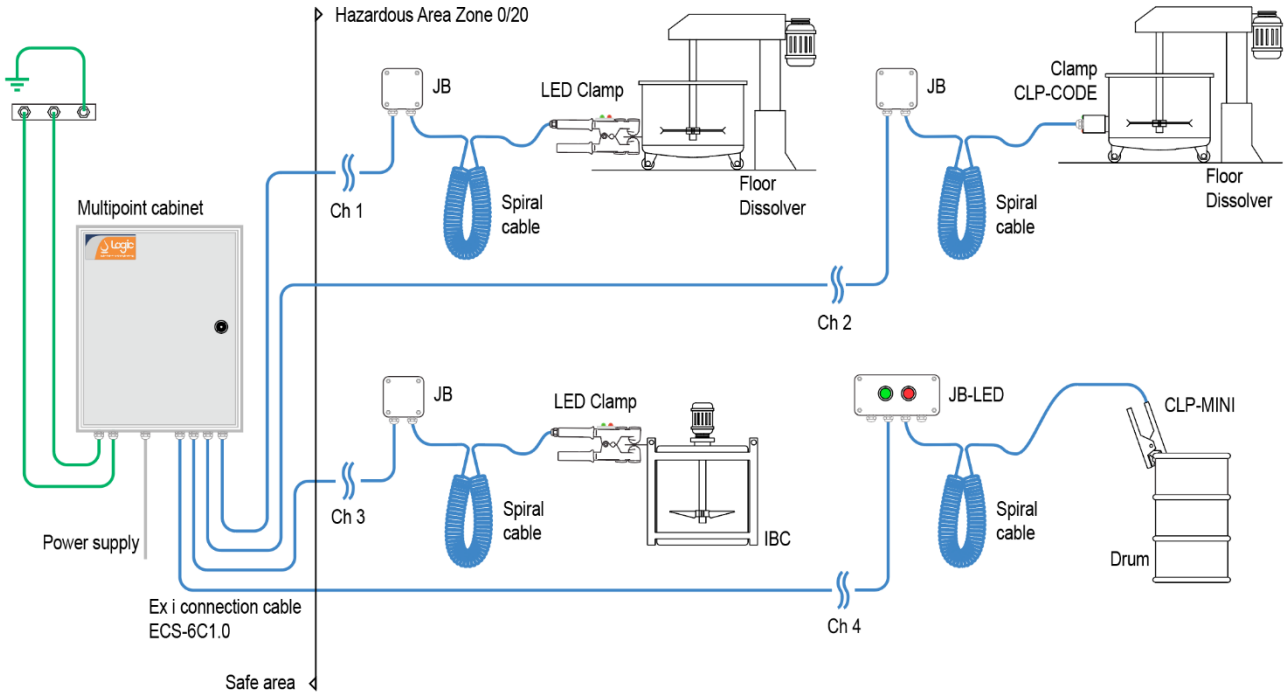
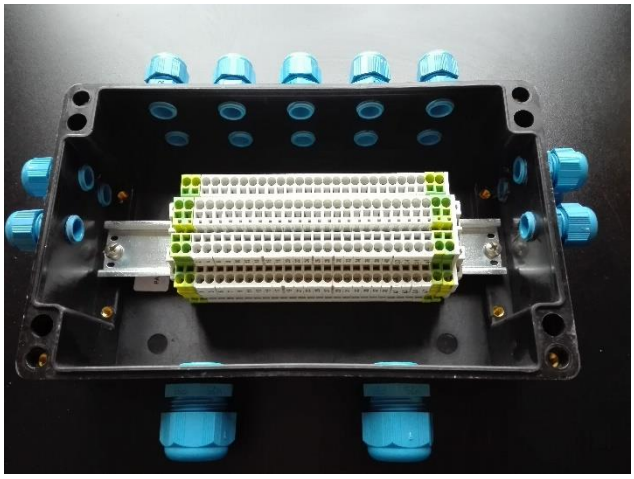
ECS-RF-MULTI application diagram

1. Electronic control units installed in an electrical panel in a safe area
2. Miscellaneous connection cables, CAB-ECS-20C1.0 multi-cables also available to serve areas with numerous earth clamps
3. Logic connection clamps of various types



JBOX Ex i per ECS-RF-MULTI system

It is possible to connect a group of earthing systems from a homogeneous area to the electrical panel containing the control units by means of a multi-cable, in order to simplify cable laying operations.



Input: 2x CAB-ECS-20C1.0 20 conductor multi-cables for Ex i applications

Output: 6x CAB-ECS-6C1.0 6 conductor cables for Ex i applications, each for the connection of a remote earthing system.

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