

EARTHING CLAMP

To unload tanker trucks in ATEX Zone 1/21

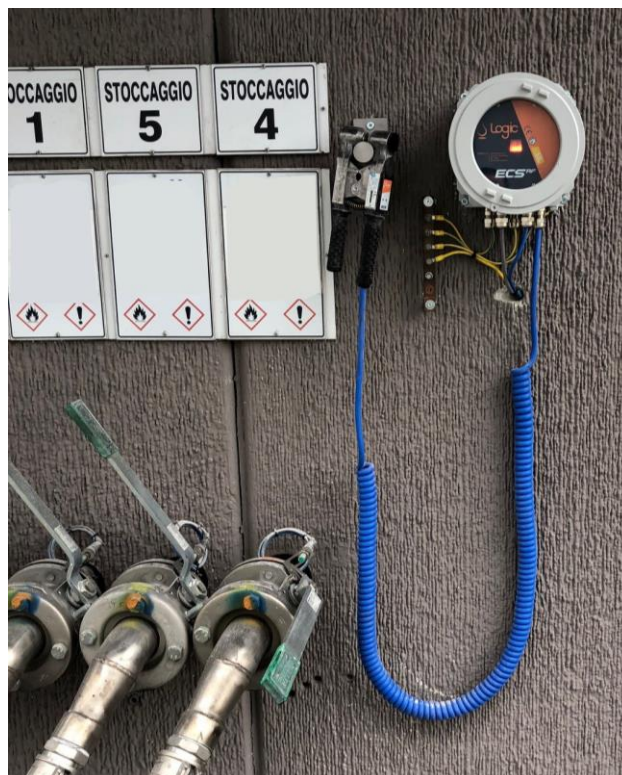


ECS-R/ECS-RF

The Logic ECS-R/ECS-RF system can be effectively used to earth tanker trucks in ATEX Zone 1/21.

The system makes it possible to dissipate any electrostatic charges generated when handling flammable liquids, by continuously verifying via the **SIL2** electronics (ECS-RF version) that the resistance to earth is always **<10Ω**.

With their many variants and accessories, ECS-R / ECS-RF series devices can be adapted to any application.



TECHNICAL SPECIFICATIONS

Control unit installation area	ECS-RF-DIN: electronics in Safe Area ECS-RF: ATEX Zone 1/21
Temperature range	Control unit in safe area: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$ Control unit ATEX Zone 1/21: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$
Standard cable	5 m 6-wire coiled cable for Ex i applications
Optional connections	10 m 6-wire coiled cable for Ex i applications CR-20 reel in AISI 304 with two-wire cable L=20 m
Power supply	AC version (ECS-RF-DIN): 230 Vac, $U_m=253 V_{\text{rms}}$ DC version (ECS-RF-DIN-DC): $10 \div 30 V_{\text{dc}}$, $U_m=30 V_{\text{dc}} / 253 V_{\text{dc}}$
Control unit dimensions (L x H x D)	Control unit for safe area (ECS-RF-DIN): 162 x 90 x 65 mm Control unit for ATEX Zone 1/21 (ECS-RF): 195 x 195 x 148 mm

IS1L CLAMP SPECIFICATIONS



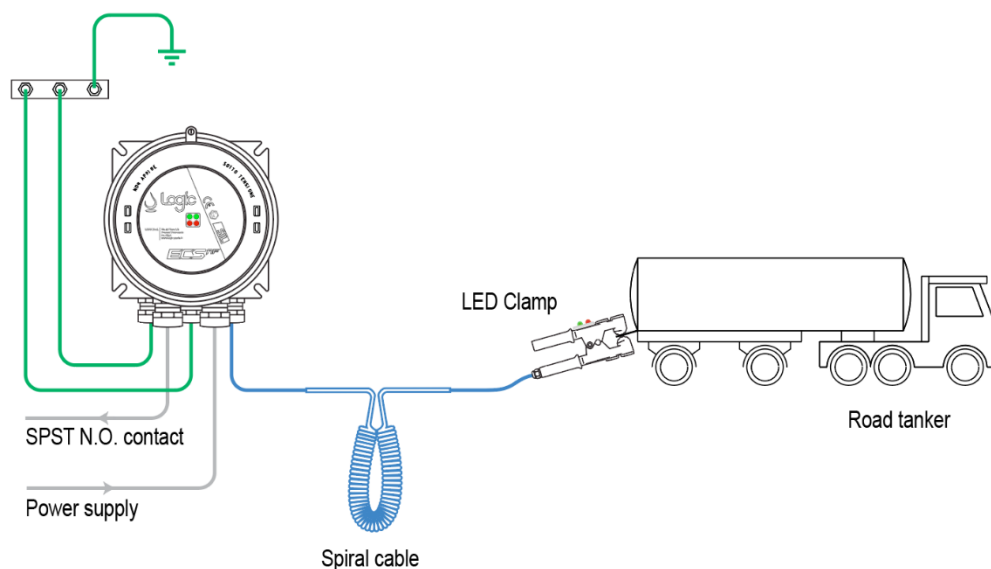
Clamp composition	Die-cast aluminium with plastic handle
Status display	Via green and red LED on the clamp
Clamp connection area	ATEX Zone 0/20
Operating temperature	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$
Dimensions (L x H x D)	250 x 110 x 95 mm

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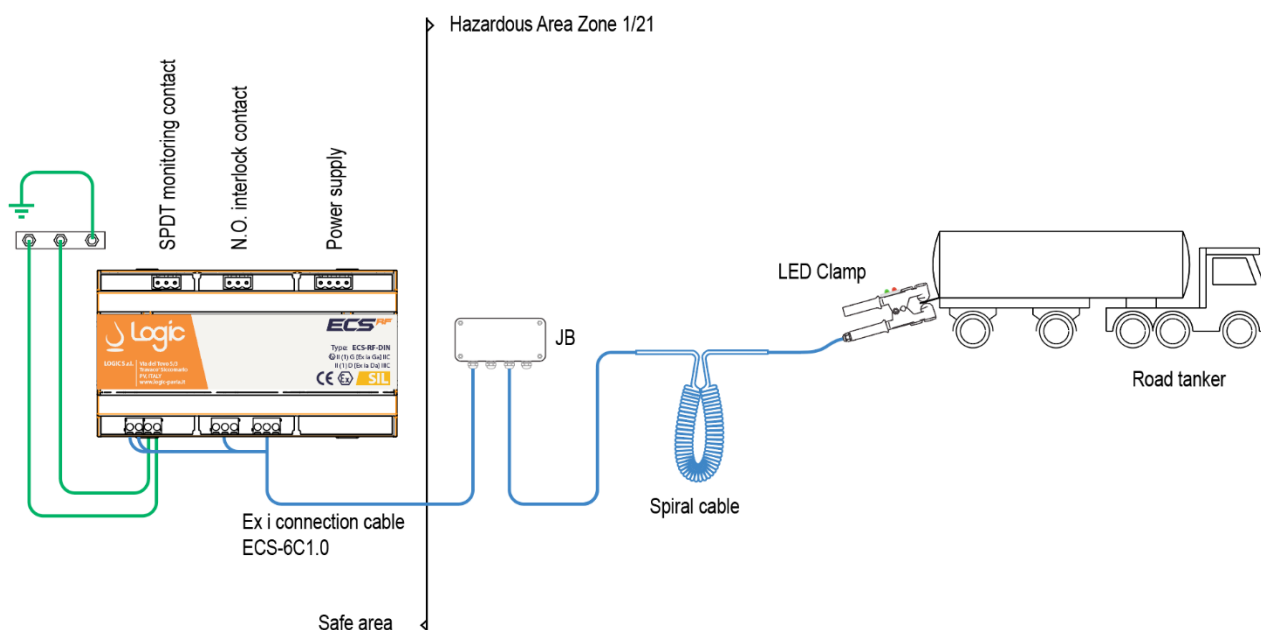
Control unit in ATEX Zone 1/21 with coiled cable

1. Electronic control unit in ATEX hazardous area 1/21
2. Coiled connection cable from the control unit to the clamp
3. Connection clamp with IS1L type LED on board



Control unit in Safe Area with coiled cable

1. Electronic control unit installed in an electrical panel in a safe area
2. Coiled connection cable from the control unit to the clamp
3. Connection clamp with IS1L type LED on board

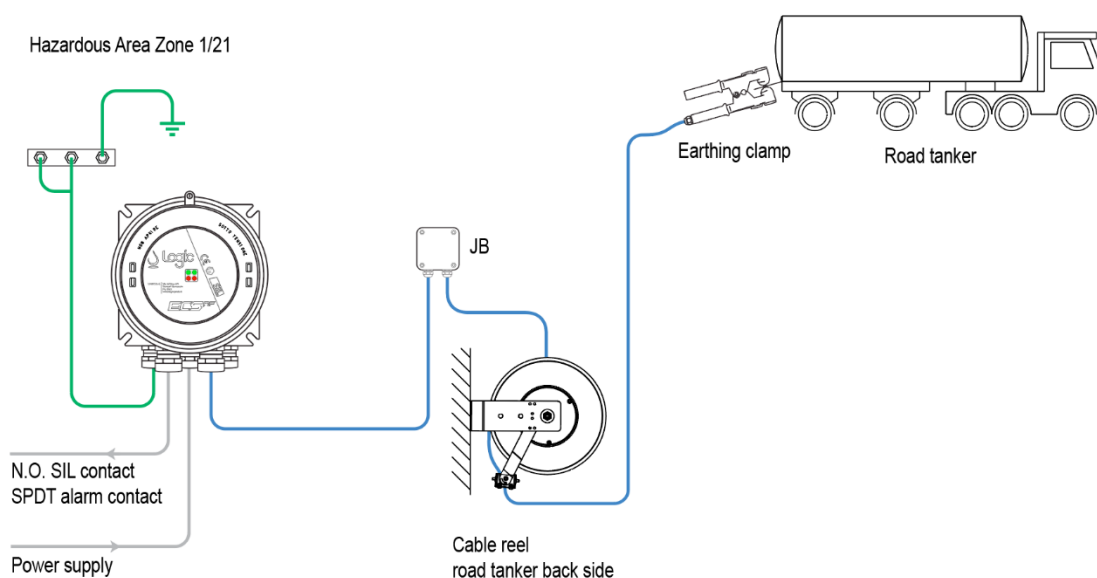


EARTHING CLAMP

To unload tanker trucks in ATEX Zone 1/21

Control unit in Zone 1/21 with 20 m CR-20 reel

1. Electronic control unit in ATEX hazardous area 1/21
2. Connection cable with 20 m reel in ATEX Zone 1/21
3. Standard IS15 connection clamp and LED on the ECS-R / ECS-RF control unit



Control unit in Safe Area with 20 m CR-20 reel

1. Electronic control unit installed in an electrical panel in a safe area
2. Connection cable with 20 m reel in ATEX Zone 1/21
3. Standard IS15 connection clamp and LED on the JBOX JB-LED

