

EARTHING MONITORING SYSTEM

Suitable for DIN rail mounting



ECS-R-DIN/ECS-RF-DIN

The **ECS-R-DIN** and **ECS-RF-DIN** devices provide n. 1 channel signal conditioning for earth connection of process equipment (IBC, drums, roadtankers, etc.). The system detect in real-time if the connection to earth is obtained with a resistance less or equal to 10Ω. The device is equipped with a DIN rail mounting system and can be installed in safety area.

The **ECS-RF-DIN** model is equipped with SPST NO contact with a safety integrity level up to SIL2, according to the EN 50495.

Order code:

ECS-R-DIN: equipped with signaling contact

ECS-RF-DIN: equipped with SIL2 interlock contact



GENERAL FEATURES

- Compact DIN rail mounting enclosure
- Equipped with high efficiency redundant green and red LEDs for earth connection monitoring
- N.1 x SPDT contact for clamp state remote monitoring
- N.1 x N.O. contact for safety applications up to SIL2
- N.2 x intrinsically safe outputs for remote LEDs installed on the clamp

These devices meet the requirement of the ATEX Directive 2014/34/EU and the related harmonized standards.

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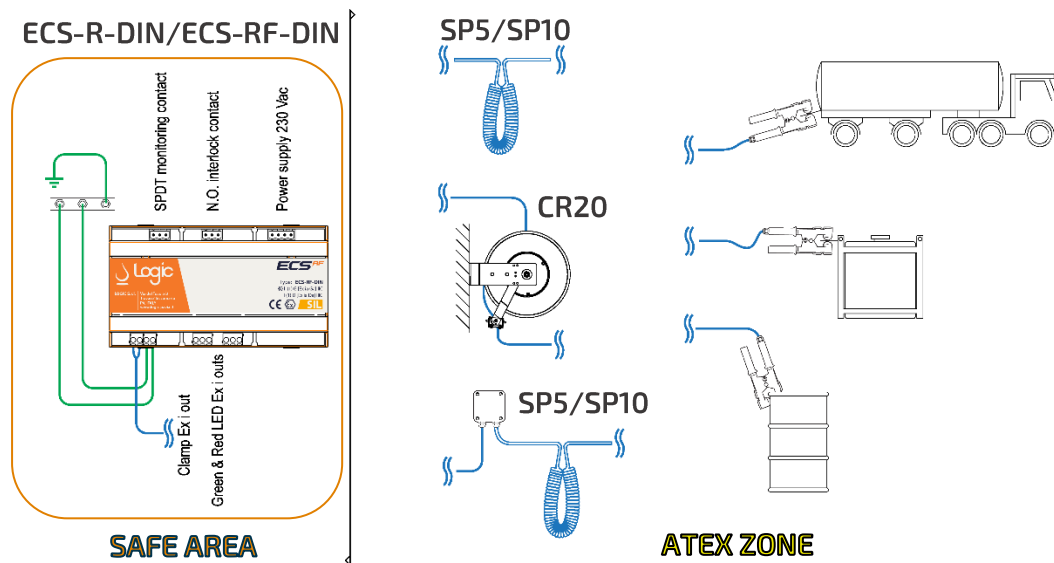
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TECHNICAL CHARACTERISTICS

ATEX marking:	II (1)G [Ex ia Ga] IIC, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$ for gases, vapors and mists
ATEX marking:	II (1)D [Ex ia Da] IIIC, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}$ for dusts
Ex i clamp input:	$U_0=7.2\text{V}$, $I_0=345\text{mA}$, $P_0=621\text{mW}$, $C_0(\text{IIC})=13.5\mu\text{F}$, $L_0(\text{IIC})=149\mu\text{H}$, $L_0/R_0=860 \mu\text{H}/\Omega$
Ex i LED output:	$U_0=7.2\text{V}$, $I_0=23\text{mA}$, $P_0=42\text{mW}$, $C_0(\text{IIC})=13.5\mu\text{F}$, $L_0(\text{IIC})=34\mu\text{H}$, $L_0/R_0=860 \mu\text{H}/\Omega$
Area of use:	safety area installation, suitable for DIN rail mounting
Power supply:	230 Vac \pm 5%
Standard cable:	extension cable CAB-ECS6C1.0
Res. threshold:	10 Ω

APPLICATION EXAMPLES



DIMENSIONS

