

Features

- Elimination of electrostatic charges
- Enclosures copper-free aluminum or stainless steel
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Ex d and Ex tb certified
- Gas group IIC
- Gas group IIB+H₂
- Degree of protection IP65

Function

The DMT Electronic Earthing System consists of a flameproof enclosure either for gas group IIB+H₂ or IIC. Integrated is an electronic resistance/ capacity device. Its modularity by dip switches placed on the electronic card allows the selection of different capacity or resistance sensibility levels. External features are a support hook and an earthing clamp complete with 8 m of cable for measuring the continuity towards the earth, in order to eliminate electrostatic charges. Red and green LED indicators on the enclosure front indicate the operational status. The enclosures are available in copper-free aluminum alloy or high-quality stainless steel. DMT electronic earthing systems are used during loading operations of tankers, drums and railway trucks in hazardous areas.



Type Code / Model Number

Enclosure type

- EJB** enclosure Ex d IIB+H₂
- GUB** enclosure Ex d IIC

Material

- copper-free aluminum
- X** stainless steel

Enclosure size

- 6A** EJB size - see dimensions data table
- 3L** GUB size - see dimensions data table

Electrical circuits

- I.IP** integrated panel with intrinsically safe circuits

Variant number

- Y-xxxxxx** without intrinsically safe circuits

Device type

- DMT14** electronic earthing system

Cable length

- /xx** length of clamp cable [m]

Operating voltage

- 23** 230 V AC
- 11** 110 V AC

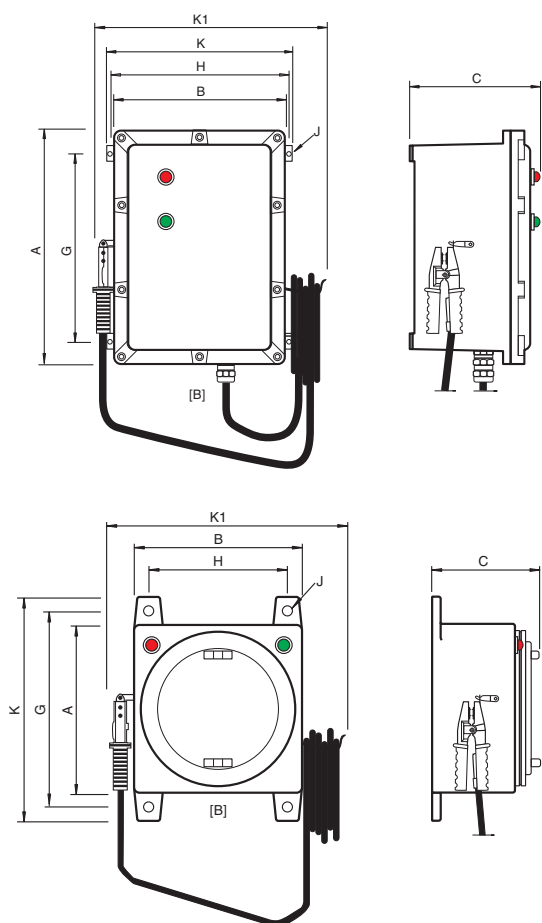
EJB	6A	I.IP	-Y277198	DMT14	/08	23
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Example: Electronic earthing system for gas group IIB+H₂ based on EJB size 6A in aluminum with 8 m of cable and 230 V AC operating

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Technical Data	
Electrical specifications	
Operating voltage	230 V AC, optional 110 V AC
Function	elimination of electrostatic charges
Lens color	red and green
Operator action	Cable: hydrocarbon-resistant, 3x 3 mm ² , length 8 m. Other lengths on request. Connection clamp: Aluminum with phosphor bronze contacts, isolating thermoplastic handles
Mechanical specifications	
Dimensions	see data tables values might differ slightly due to manufacturing tolerances
Thread type	metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1
Enclosure cover	see data tables
Cover fixing	see data tables
Cover seal	none, O-ring for IP66/67
Degree of protection	IP65, enclosure IP66 (IP66/67 with O-ring)
Cable entry	face B
Quantity	2
Type	NPT 3/4" as standard, other on request
Grounding	M6 external grounding points
Mass	see data tables
Material	
Enclosure	Aluminum alloy or AISI 316L, (1.4404) stainless steel
Finish	epoxy coated RAL 7005 (grey) or shot peened
O-Ring	silicone
Flamepath grease	see data tables
Ambient conditions	
Ambient temperature	-20 ... 40 °C (-4 ... 104 °F)
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	see data tables
Conformity	
Degree of protection	EN 60529
CE marking	0080 or 0102, see type label
General information	
Ordering information	This solution will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Dimensions



Legend

A	Height
B	Width
C	Depth
G	Mounting holes distance, vertical
H	Mounting holes distance, horizontal
J	Mounting holes diameter
K	Maximum external dimension with mounting bracket
K1	Maximum external dimension with clamp and cable hook
[B]	Cable entry face

Dimension values see data table. Image and drawing are generic for this device type and may deviate from the specific variant.

top drawing: EJB6A*
bottom drawing: GUB3L*

Dimensions and Data for Application in Connection with Hazardous Areas

Type	Material	External dimensions [mm]					Mounting [mm]			Mass approx. [kg]	EU-Type Examination Certificate	Marking
		A	B	C	K	K1	G	H	J			
EJB6A*DMT*	Aluminum alloy	332	232	185	216	380	230	196	8	13	INERIS 14 ATEX 0022X	Ex II 2 GD Ex db [ia Ga] IIB+H ₂ T6 Gb Ex tb [iaD] IIIB T85 °C Db
EJBX6A*DMT*	Stainless steel	309	209	185	216	360	233	196	8	23		
GUB3L*DMT*	Aluminum alloy	360	360	245	430	510	395	318	10	25	INERIS 14 ATEX 0035X	Ex II 2 GD Ex db [ia Ga] IIC T6 Gb Ex tb [iaD] IIIC T85 °C Db
GUBX3L*DMT*	Stainless steel	360	360	225	430	510	395	318	10	96		

Enclosure Details

Type	Material	Cover			Cover screws		
		Type	Fixing	Flamepath grease	Mx	qty.	Torque [Nm]
EJB6A*DMT*	Aluminum alloy	detachable, optional hinges	stainless steel socket cap head screws	Greasil MS4 or NEVER SEEZ Marine Grade	M8	10	20
EJBX6A*DMT*	Stainless steel						
GUB3L*DMT*	Aluminum alloy	threaded round cover	flamepath thread	petroleum jelly			
GUBX3L*DMT*	Stainless steel						

For details please refer to individual product datasheet

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