

(1) **EU-Type Examination Certificate**
(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 21 ATEX 0909X**

(4) Product: **M-S Series, Junction Box**

(5) Firm Name: **MSM Mühendislik Elektromekanik San. Tic. Ltd. Şti.**

(6) Firm Address: **Barbaros Mah. Millet Cad. No : 38 Ataşehir / İSTANBUL - TURKEY**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1904 date 13.04.2021.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

IEC EN 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



II 2G Ex db IIC T4~T6 Gb
II 2D Ex tb IIIC T85°C~T120°C Db, IP 66

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body



Date of Issue: 16.04.2021





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(13) Schedule

(14) Certificate Nr: **IEP 21 ATEX 0909X**

(15) Description of Equipment: M-S series junction box consists of an enclosure in type of explosion protection flameproof "db" type, in which the electrical and mechanical apparatus is mounted. The main body is made of aluminum. Cable assembly must be performed by Ex d cable glands. Junction box is equipped with cable to use of external grounding cable 4 mm² (min) and HD 21.13.S1/HD.22.4.S4. NBR fireproof gasket is used for IP 66.

Technical Detail : M-S Series Junction Box

Type	N	M	Number Of Ways	Technical Parameters	
M-SL 16	1/2"	M16x1,5	2	Voltage (Max) : 750 V AC,DC Frequency : 50/60 Hz Current (Max) : 170 (A) Ambient Temperature : -30°C ~+40°C /+60°C IP : 66 Current Density : 2.5 -6.6(A/mm2) Cross section of terminals : Max 25 mm2	
M-SL 26	3/4"	M20X1,5	2		
M-SL 116	1/2"	M16x1,5	2		
M-SL 126	3/4"	M20X1,5	2		
M-SC 16	1/2"	M16x1,5	2		
M-SC 26	3/4"	M20X1,5	2		
M-SC 116	1/2"	M16x1,5	2		
M-SC 126	3/4"	M20X1,5	2		
M-ST 16	1/2"	M16x1,5	3		
M-ST 26	3/4"	M20X1,5	3		
M-ST 116	1/2"	M16x1,5	3		
M-ST 126	3/4"	M20X1,5	3		
M-SX 16	1/2"	M16x1,5	4		
M-SX 26	3/4"	M20X1,5	4		
M-SX 116	1/2"	M16x1,5	4		
M-SX 126	3/4"	M20X1,5	4		
T ambient temperature			Tx Equipment temperature class / Max current		For Gas or Dust
-30 0C < Ta < +40 0C			T6 /60 A, T5 /100A, T5/ 170 A		Gas
-30 0C < Ta < +60 0C			T5 /60 A, T5 /100A, T4 / 170 A		Gas
-30 0C < Ta < +40 0C			80 0C / 60 A, 90 0C / 100A, 900C / 170 A		Dust
-30 0C < Ta < +60 0C			90 0C / 60 A, 90 0C / 100A, 1200C / 170		Dust
			A		

(IEP 21 ATEX 0909X) X means: Installation must be done by authorized personnel according to the manual and EN 60079-14 standard. Periodic inspections and maintenance should be carried out by an authorized establishment or personnel according to the EN 60079-17 standard. Temperature classes are between T4 and T6. It changes according to the working environment temperature and current. Internal equipment should be selected in accordance with the temperature class.

(16) Essential Health and Safety Requirements:

16.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

16.2 At the installation and the operation of the M-S series junction box have to be observed manufacturer's manual 10 pages dated 10.02.2020.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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(17) Certificate Nr: **IEP 21 ATEX 0909X**

(18) List of Documentation:

- ♦ M-S series junction box user manual : 10 pages, dated 10.02.2020
- ♦ Component Lists : M-S-16-26-36/5 dated 02.02.2020
- ♦ Gasket : Elastosil / Inoser UMR.FKM.0070.KH.10
- ♦ Body : Aluminum

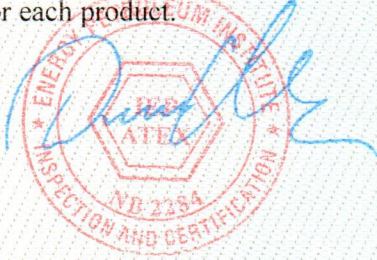
(19) Drawings:

Drawing Nr;	Drawing Name;	Date;
M-S-16-26-36/1	Exploded picture	10.03.2020
M-S-16-26-36/2	Body	10.03.2020
M-S-16-26-36/3	Grounding Schema	10.09.2020
M-S-16-26-36/4	Label	11.03.2021
M-S-16-26-36/5	Component Lists	11.03.2020

For the validity of analysis type certificate, the parts that are used in M-S series junction box are determined in confirmed 10.03.2020 date, section table M-S-16-26-36/5. Routine tests should be carried out according to the EN 60079-1 standard for each product.

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body



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