IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx SGS 26.0002X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2026-03-11		
Applicant:	**METALMECH ENGINEERING** Plot No. 4246, GIDC, Dared, Phase - III, Road No. E, Jamnagar, Gujarat 361 004 **India**		
Equipment:	**MM-Ex E1WB ** ** ** Series Barrier Cable Glands**		
Optional accessory:			
Type of Protection:	**Flameproof, Increased safety, Dust Protected**		
Marking:	**Ex db IIC Gb (-40°C ≤ Ta ≤ +85°C)** **Ex eb IIC Gb (-40°C ≤ Ta ≤ +85°C)** **Ex tb IIIC Db (-40°C ≤ Ta ≤ +85°C)**		

Approved for issue on behalf of the IECEx Certification Body:	**D Brearley**
Position:	**Lead Certification Engineer**
Signature: (for printed version)	
Date: (for printed version)	11/3/2026

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Certificate issued by:

SGS United Kingdom Ltd
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom

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Manufacturer: **METALMECH ENGINEERING**
Plot No. 4246, GIDC, Dared,
Phase - III, Road No. E,
Jamnagar, Gujarat 361 004
India

Manufacturing locations:

METALMECH ENGINEERING
Plot No. 4246, GIDC, Dared,
Phase - III, Road No. E,
Jamnagar, Gujarat 361 004
India

METALMECH ENGINEERING
Plot No. 3679-3680-3681, Road No.6,
GIDC, Phase-III, Dared, Jamnagar,
Gujarat 361004
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

GB/SGS/ExTR26.0018/00

Quality Assessment Report:

NO/PRE/QAR20.0014/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The MM-Ex E1WB ** ** ** series barrier cable glands are designed for the installation of cables into associated Ex enclosures with either threaded or plain entries.

The barrier cable gland assembly comprises the following components:

1. Locknut (optional) made of Brass/SS
2. IP Washer made of PTFE
3. Entry component made of Brass/SS
4. Sealing pot seal made of Silicon
5. Sealing pot made of Brass/SS
6. Inner retaining ring made of PPS
7. Deluge seal (O-ring) made of Silicon
8. Armour cone made of Brass/SS
9. Reversible armour ring made of Brass/SS
10. Middle nut made of Brass/SS
11. Back nut made of Brass/SS
12. Outer seal made of Silicon
13. Outer retaining ring made of PPS

See Annex for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The installation of barrier gland should be done on fixed installations with circular cables only and must be tightened with the rated torque as specified in the instructions.
2. The Barrier cable glands shall be installed taking into consideration the service temperature range of -40°C to +85°C.
3. The manufacturer has maintained higher flame path length and more stringent flame path gap than required by the standard, the user must refer to manufacturer before carrying out any repairs or refurbishment to the equipment.
4. When the cores will be fitted inside the sealing pot by epoxy putty compound, the mounting should guarantee a sufficient quantity of compound around each single core to ensure the sealing of the cemented joint.
5. In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent appropriate to minimum ambient temperature and temperature class of the equipment on which it is installed.
6. In case of metric connecting threads, when fitted in threaded holes, the sealing face of the enclosure shall be smooth, the threaded hole shall be perpendicular to the wall of the enclosure and the threads shall be a medium fit thread.
7. User shall refer to the type identification in certificate / instructional manual for the details of thread form & size of the cable gland and the permitted range of cable diameters.
8. When the cable glands are used for increased safety or dust protection in a plain hole, the hole in the enclosure must not be greater than 0.5mm above the major diameter of the male thread and the cable glands must be secured with a locknut.
9. Barrier glands can be used with braid armour cables when the purpose of the braid armour is mechanical protection of the cable and the braid armour must be clamped by means of armour cone and reversible ring with a correct orientation as specified in the instructions to ensure effective clamping of the cable.

Annex:

IECEx SGS 26.0002X Annex.pdf

The front threaded entry component of the cable gland is intended to be screwed into the entry point of the associated enclosure and is provided with a sealing pot forming a cylindrical joint. The sealing pot is filled with epoxy putty compound, creating a compound seal around the individual cable cores.

Barrier cable glands are designed for use with all types of armoured cables, including wire braid armour, steel tape armour (STA), aluminium strip armour (ASA), steel wire armour (SWA), aluminium wire armour (AWA), pliable wire armour (PWA), and steel wire braided armour (SWB).

The barrier cable glands are manufactured in either: brass, naval grade brass, lead free brass or stainless steel SS304 / SS 316L grade material. All brass components can be optionally nickel plated.

For non-threaded entry points in Increased Safety (Ex e) and Dust Ignition Protected (Ex t) enclosures, metric or NPT threaded cable glands are installed using a locking nut.

An Ingress protection of IP66/68 (5 meters, 10 hours) in accordance with IEC 60529 and IEC 60079-0 standard is maintained when the cable glands are installed in accordance with the manufacturer's instructions.

Cable Gland Selection Table:

Gland Size	Entry Thread			Max Inner Sheath Dia. (mm)	Max. diameter over cores (mm)	Max. No. of cores	Outer Sheath Cable Diameter in mm	
	Standard (Metric)	Optional					Minimum (mm)	Maximum (mm)
		Metric	NPT					
16	M16 x 1.5	M20 X 1.5	3/8" or 1/2"	9.00	8.00	12	6.20	13.10
20S	M20 X 1.5	M25 X 1.5	1/2" or 3/4"	10.00	8.90	12	9.60	15.50
20	M20 X 1.5	M25 X 1.5	1/2" or 3/4"	12.00	10.70	15	12.50	20.90
25S	M25 X 1.5	M32 X 1.5	3/4" or 1"	17.00	15.20	30	14.00	21.50
25	M25 X 1.5	M32 X 1.5	3/4" or 1"	17.00	15.20	30	18.30	25.60
32	M32 X 1.5	M40 X 1.5	1" or 1 1/4"	23.40	20.90	42	23.70	33.40
40	M40 X 1.5	M50 X 1.5	1 1 ¼" or 1 ½"	30.00	26.80	60	28.00	39.50
50S	M50 X 1.5	M63 X 1.5	1 ½" or 2"	35.00	31.30	70	35.20	46.00
50	M50 X 1.5	M63 X 1.5	2" or 2 ½"	39.60	35.40	80	40.50	52.40
63S	M63X 1.5	M75 X 1.5	2" or 2 ½"	45.50	40.60	90	45.60	58.50
63	M63 X 1.5	M75 X 1.5	2 ½" or 3"	51.00	45.60	100	54.60	64.50
75S	M75 X 1.5	M90 X 2.0	2 ½" or 3"	57.00	50.90	110	59.00	70.40
75	M75 X 1.5	M90 X 2.0	3" or 3 ½"	62.50	55.90	120	66.70	76.30

Model Designation:

MM-Ex | E1WB | 50S | 5M | B1

Code
MM-Ex

Type
E1WB = (Putty Type)

Material
B1= Brass
B2= Brass Nickel Plated
B3= Naval Grade Brass
B4= Naval Grade Brass Nickel Plated
B5= Lead Free Brass
B6= Lead Free Brass Nickel Plated
X4=SS304
X6=SS316L

Gland Size	Thread Code (Metric)	Thread Code (NPT)	Thread Code Optional (Metric)	Thread Code Optional (NPT)
16	0M=M16	0N=3/8"	1M=M20	1N=1/2"
20s	1M=M20	1N=1/2"	2M=M25	2N=3/4"
20	1M=M20	1N=1/2"	2M=M25	2N=3/4"
25s	2M=M25	2N=3/4"	3M=M32	3N=1"
25	2M=M25	2N=3/4"	3M=M32	3N=1"
32	3M=M32	3N=1"	4M=M40	4N=1.1/4"
40	4M=M40	4N=1.1/4"	5M=M50	5N=1.1/2"
50s	5M=M50	5N=1.1/2"	6M=M63	6N=2"
50	5M=M50	6N=2"	6M=M63	7N=2.1/2"
63s	6M=M63	6N=2"	7M=M75	7N=2.1/2"
63	6M=M63	7N=2.1/2"	7M=M75	8N=3"
75s	7M=M75	7N=2.1/2"	8M=M90	8N=3"
75	7M=M75	8N=3"	8M=M90	9N=3.1/2"