

EC-TYPE EXAMINATION CERTIFICATE



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[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3]

EC-Type Examination Certificate Number: **DEMKO 10 ATEX 0915070X Rev. 3**

[4]

Equipment or Protective System: **Brushless servomotor, G493, G495 and G496 models**

[5]

Manufacturer: **Moog Controls (India) PVT Ltd.**

[6]

Address: **KIADB Industrial Area, No. 99, 100P & 41P, Electronics City Phase II, Hosur Road, Bangalore - 560 100, Karnataka, India**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **13CA31502**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-31:2009

[10]

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

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



II 2 G Ex d IIC T3-T6 Gb



II 2 D Ex tb IIIC T200°C-T85°C Db IP65/67

Certification Manager
Jan-Erik Storgaard

Notified Body

This is to certify that the sample(s) of the Product(s) described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

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Description of Equipment or protective system

Product is a brushless servomotor for use in gas and dust atmospheres of model numbers G493, G495, and G496. The three models are similar in design but vary in size, volume and electrical parameters. The motor has two versions for IP rating, IP 65 and IP 67. The motor has a built-in temperature-limiting device of NTC, PTC or KTY type. A primary thermistor which is a PTC type only and is to be connected to a temperature monitoring device, which would trip power supply to drive on field. An optional secondary thermistor which can be of the PTC/NTC or KTY type can also be connected. The enclosure is made of aluminum alloy. The dimensions and flame paths remain constant for a particular motor model and only the torque and power ratings vary. The motor is available in various stack lengths.

Nomenclature for types G493 and G495:

| | | | | | | | | | | |
|-------|----|-----|----|---|-----|-----|------|----|----|-----|
| FAS G | 3 | L | M | 2 | 010 | 00 | 00 | 01 | 01 | 000 |
| I | II | III | IV | V | VI | VII | VIII | IX | X | XI |

I – Motor Series

G (Global) – Series designation

II – Motor Size

3 (493) – 70 mm square flange
 5 (495) – 140 mm square flange
 6 (496) – 190 mm square flange

III – Design

L – Moog Ex Design UL

IV – Winding Voltage

M – Low voltage
 V – High voltage

V – Stack Length

0 – Non-standard stack length, between L05 and L40 for G493, between L10 and L50 for G495 and between L15 and L90 for G496
 2 – L05 (G493) or L10 (G495) or L15 (G496)
 4 – L15 (G493) or L20 (G495) or L30 (G496)
 6 – L25 (G493) or L30 (G495) or L45 (G496)
 8 – L40 (G493) or L50 (G495) or L60 (G496)
 9 – L90 (G496)

VI – Nominal Speed, RPM

Any number between X – XXX, followed by motor RPM code, where the RPM code designation given as = RPM/100

VII – Electrical Option

| | Brake Options | | Cable gland position | |
|----|--|---|----------------------|------|
| | 1 | 2 | Top | Back |
| 00 | - | - | X | - |
| 01 | X | - | X | - |
| 02 | - | X | X | - |
| 03 | - | - | - | X |
| 04 | X | - | - | X |
| 05 | - | X | - | X |
| 99 | Special version – not affecting the electrical performance or protection methods of the device as described in the documents | | | |

Brake option

| Brake Option | | | | |
|--------------|------------|--------|---------|-------|
| | Motor Size | G493 | G495 | G496 |
| Low -T | 1 | 2 Nm | 14.5 Nm | 22 Nm |
| High -T | 2 | 4.5 Nm | 22 Nm | 72 Nm |
| | Code | | | |



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VIII – Mechanical Option

| | Keyway | Shaft exit seal |
|----|--|-----------------|
| 00 | None provided | X |
| 01 | X | X |
| 99 | Special version – not affecting the electrical performance or protection methods of the device as described in the documents | |

IX – Feedback Option

Any two digit number - Not related to the protection method

X – Ignition Temperature Class

| | Ignition Temperature Class / Ambient (°C) * | | | | | | | | | | | | | |
|----|--|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|-------------|
| | -20 to +40 | -20 to +50 | -20 to +60 | -20 to +70 | -20 to +80 | -20 to +90 | -20 to +100 | -40 to +40 | -40 to +50 | -40 to +60 | -40 to +70 | -40 to +80 | -40 to +90 | -40 to +100 |
| 00 | - | - | - | - | - | - | - | - | - | - | - | T4 | - | - |
| 01 | - | T4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 02 | - | - | T4 | - | - | - | - | - | - | - | - | - | - | - |
| 03 | T4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 04 | - | - | - | T4 | - | - | - | - | - | - | - | - | - | - |
| 05 | - | - | - | - | T4 | - | - | - | - | - | - | - | - | - |
| 06 | - | - | - | - | - | - | - | T4 | - | - | - | - | - | - |
| 07 | - | - | - | - | - | - | - | - | T4 | - | - | - | - | - |
| 08 | - | - | - | - | - | - | - | - | - | T4 | - | - | - | - |
| 09 | - | - | - | - | - | - | - | - | - | - | T4 | - | - | - |
| 10 | T5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | - | - | - | - | - | - | - | T5 | - | - | - | - | - | - |
| 12 | T6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | - | - | - | - | - | - | - | T6 | - | - | - | - | - | - |
| 14 | T3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15 | - | T3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | - | - | T3 | - | - | - | - | - | - | - | - | - | - | - |
| 17 | - | - | - | T3 | - | - | - | - | - | - | - | - | - | - |
| 18 | - | - | - | - | T3 | - | - | - | - | - | - | - | - | - |
| 19 | - | - | - | - | - | T3 | - | - | - | - | - | - | - | - |
| 20 | - | - | - | - | - | - | T3 | - | - | - | - | - | - | - |
| 21 | - | - | - | - | - | - | - | T3 | - | - | - | - | - | - |
| 22 | - | - | - | - | - | - | - | - | T3 | - | - | - | - | - |
| 23 | - | - | - | - | - | - | - | - | - | T3 | - | - | - | - |
| 24 | - | - | - | - | - | - | - | - | - | - | T3 | - | - | - |
| 25 | - | - | - | - | - | - | - | - | - | - | - | T3 | - | - |
| 26 | - | - | - | - | - | - | - | - | - | - | - | - | T3 | - |
| 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | T3 |
| 99 | Special version – not affecting the electrical performance or protection methods of the device as described in the documents | | | | | | | | | | | | | |

* - T3 ignition temp class for size 3 & 5 up to 80°C only.

XI – Special Version

Any three digit number - Not related to the protection method

Temperature range

The ambient ranges and the temperature class details are given below. The temperature class and ambient are related based on the power supply rating to the motor at a specific ambient range.

For G493 and G495 motors:

The relation between ambient temperature and the assigned temperature class is as follows:

| Ambient temperature range | Temperature class |
|---------------------------|---------------------|
| -40 °C to +40 °C | See Electrical data |
| -20 °C to +40 °C | |
| -40 °C to +50 °C | See Electrical data |
| -20 °C to +50 °C | |
| -40 °C to +70 °C | See Electrical data |
| -20 °C to +70 °C | |
| -40 °C to +80 °C | See Electrical data |
| -20 °C to +80 °C | |



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For G496 motors:

The relation between ambient temperature and the assigned temperature class is as follows:

| Ambient temperature range | Temperature class |
|--|---------------------|
| -40 °C to +40 °C -20 °C to +40 °C | See Electrical data |
| -40 °C to +50 °C -20 °C to +50 °C | See Electrical data |
| -40 °C to +70 °C -20 °C to +70 °C | See Electrical data |
| -40 °C to +80 °C -20 °C to +80 °C | See Electrical data |
| -40 °C to +90 °C -20 °C to +90 °C | See Electrical data |
| -40 °C to +100 °C -20 °C to +100 °C | See Electrical data |

Electrical data

Power ratings with corresponding range of parameters for motors are as below:

For G493:

| Stack Length | Power, W | Speed, rpm | Rated Torque, Nm | Peak Torque, Nm | Ambient Rating, °C | Temperature Class |
|--------------|----------|------------|------------------|-----------------|--------------------------|-------------------|
| L05 | 0 | 0 | 0.52 | 1.6 | -40 to +40 -20 to +40 | T4/T135°C |
| | 359 | 7800 | 0.44 | 1.6 | | |
| L40 | 0 | 0 | 3.26 | 13.2 | -40 to +50 -20 to +50 | T4/T135°C |
| | 1117 | 3800 | 2.82 | 13.2 | | |
| L05 | 0 | 0 | 0.5 | 1.6 | -40 to +60 -20 to +60 | T4/T135°C |
| | 341 | 7800 | 0.42 | 1.6 | | |
| L40 | 0 | 0 | 3.13 | 13.2 | -40 to +70 -20 to +70 | T4/T135°C |
| | 1059 | 3800 | 2.66 | 13.2 | | |
| L05 | 0 | 0 | 0.46 | 1.6 | -40 to +80 -20 to +80 | T4/T135°C |
| | 304 | 7800 | 0.37 | 1.6 | | |
| L40 | 0 | 0 | 2.88 | 13.2 | -40 to +40 -20 to +40 | T5/T100°C |
| | 942 | 3800 | 2.37 | 13.2 | | |
| L05 | 0 | 0 | 0.41 | 1.6 | -40 to +40 -20 to +40 | T6/T85°C |
| | 253 | 7800 | 0.31 | 1.6 | | |
| L40 | 0 | 0 | 2.56 | 13.2 | -40 to +40 -20 to +40 | T6/T85°C |
| | 786 | 3800 | 1.97 | 13.2 | | |
| L05 | 0 | 0 | 0.34 | 1.6 | -40 to +40 -20 to +40 | T6/T85°C |
| | 177 | 7800 | 0.22 | 1.6 | | |
| L40 | 0 | 0 | 2.14 | 13.2 | -40 to +40 -20 to +40 | T6/T85°C |
| | 552 | 3800 | 1.38 | 13.2 | | |
| L05 | 0 | 0 | 0.43 | 1.6 | -40 to +40 -20 to +40 | T6/T85°C |
| | 273 | 7800 | 0.33 | 1.6 | | |
| L40 | 0 | 0 | 2.74 | 13.2 | -40 to +40 -20 to +40 | T6/T85°C |
| | 847 | 3800 | 2.12 | 13.2 | | |
| L05 | 0 | 0 | 0.32 | 1.6 | -40 to +40 -20 to +40 | T6/T85°C |
| | 118 | 7800 | 0.14 | 1.6 | | |
| L40 | 0 | 0 | 1.99 | 13.2 | -40 to +40 -20 to +40 | T6/T85°C |
| | 364 | 3800 | 0.91 | 13.2 | | |



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For G495:

| Stack Length | Power, W | Speed, rpm | Rated Torque, Nm | Peak Torque, Nm | Ambient Rating, °C | Temperature Class |
|--------------|----------|------------|------------------|-----------------|----------------------------|-------------------|
| L10 | 0 | 0 | 5.79 | 12.2 | -40 to +40 -20 to +40 | T4/T135°C |
| | 2173 | 4800 | 4.32 | 12.2 | | |
| L50 | 0 | 0 | 25.39 | 61.2 | -40 to +50 -20 to +50 | T4/T135°C |
| | 4388 | 2000 | 20.95 | 61.2 | | |
| L10 | 0 | 0 | 5.47 | 12.2 | -40 to +60 -20 to +60 | T4/T135°C |
| | 1969 | 4800 | 3.92 | 12.2 | | |
| L50 | 0 | 0 | 24 | 61.2 | -40 to +70 -20 to +70 | T4/T135°C |
| | 4046 | 2000 | 19.32 | 61.2 | | |
| L10 | 0 | 0 | 5.15 | 12.2 | -40 to +80 -20 to +80 | T4/T135°C |
| | 1746 | 4800 | 3.47 | 12.2 | | |
| L50 | 0 | 0 | 22.6 | 61.2 | -40 to +40 -20 to +40 | T5/T100°C |
| | 3682 | 2000 | 17.58 | 61.2 | | |
| L10 | 0 | 0 | 4.81 | 12.2 | -40 to +40 -20 to +40 | T6/T85°C |
| | 1489 | 4800 | 2.96 | 12.2 | | |
| L50 | 0 | 0 | 21.14 | 61.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 3283 | 2000 | 15.67 | 61.2 | | |
| L10 | 0 | 0 | 4.3 | 12.2 | -40 to +90 -20 to +90 | T3/T200°C |
| | 1035 | 4800 | 2.06 | 12.2 | | |
| L50 | 0 | 0 | 18.87 | 61.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 2604 | 2000 | 12.43 | 61.2 | | |
| L10 | 0 | 0 | 5.09 | 12.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 1581 | 4800 | 3.15 | 12.2 | | |
| L50 | 0 | 0 | 22.35 | 61.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 3474 | 2000 | 16.6 | 61.2 | | |
| L10 | 0 | 0 | 4.03 | 12.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 645 | 4800 | 1.47 | 12.2 | | |
| L50 | 0 | 0 | 17.68 | 61.2 | -40 to +100 -20 to +100 | T3/T200°C |
| | 1640 | 2000 | 7.83 | 61.2 | | |

For G496:

| Stack Length | Power, W | Speed, rpm | Rated Torque, Nm | Peak Torque, Nm | Ambient Rating, °C | Temperature Class |
|--------------|----------|------------|------------------|-----------------|----------------------------|-------------------|
| L15 | 0 | 0 | 13 | 40 | -40 to +40 -20 to +40 | T3/T200°C |
| | 3464 | 4000 | 8 | 40 | | |
| L90 | 0 | 0 | 70 | 240 | -40 to +50 -20 to +50 | T3/T200°C |
| | 8378 | 2000 | 40 | 240 | | |
| L15 | 0 | 0 | 13 | 40 | -40 to +60 -20 to +60 | T3/T200°C |
| | 3179 | 4000 | 8 | 40 | | |
| L90 | 0 | 0 | 66 | 240 | -40 to +70 -20 to +70 | T3/T200°C |
| | 8378 | 2000 | 40 | 240 | | |
| L15 | 0 | 0 | 12 | 40 | -40 to +80 -20 to +80 | T3/T200°C |
| | 2886 | 4000 | 7 | 40 | | |
| L90 | 0 | 0 | 64 | 240 | -40 to +90 -20 to +90 | T3/T200°C |
| | 8378 | 2000 | 40 | 240 | | |
| L15 | 0 | 0 | 11 | 40 | -40 to +100 -20 to +100 | T3/T200°C |
| | 2346 | 3200 | 7 | 40 | | |
| L90 | 0 | 0 | 58 | 240 | -40 to +100 -20 to +100 | T3/T200°C |
| | 6053 | 1700 | 34 | 240 | | |
| L15 | 0 | 0 | 10 | 40 | -40 to +100 -20 to +100 | T3/T200°C |
| | 1926 | 2800 | 7 | 40 | | |
| L90 | 0 | 0 | 53 | 240 | -40 to +100 -20 to +100 | T3/T200°C |
| | 5027 | 1500 | 32 | 240 | | |
| L15 | 0 | 0 | 9 | 40 | -40 to +100 -20 to +100 | T3/T200°C |
| | 1330 | 2300 | 6 | 40 | | |
| L90 | 0 | 0 | 46 | 240 | -40 to +100 -20 to +100 | T3/T200°C |
| | 4241 | 1500 | 27 | 240 | | |
| L15 | 0 | 0 | 8 | 40 | -40 to +100 -20 to +100 | T3/T200°C |
| | 928 | 2000 | 4 | 40 | | |
| L90 | 0 | 0 | 40 | 240 | -40 to +100 -20 to +100 | T3/T200°C |
| | 3142 | 1250 | 24 | 240 | | |



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For G496 (Continued):

| Stack Length | Power, W | Speed, rpm | Rated Torque, Nm | Peak Torque, Nm | Ambient Rating, °C | Temperature Class |
|--------------|----------|------------|------------------|-----------------|--------------------------|-------------------|
| L15 | 0 | 0 | 13 | 40 | -40 to +40 -20 to +40 | T4/T135°C |
| | 3464 | 4000 | 8 | 40 | | |
| L90 | 0 | 0 | 70 | 240 | | |
| | 8378 | 2000 | 40 | 240 | | |
| L15 | 0 | 0 | 13 | 40 | -40 to +50 -20 to +50 | T4/T135°C |
| | 3179 | 4000 | 8 | 40 | | |
| L90 | 0 | 0 | 66 | 240 | | |
| | 8378 | 2000 | 40 | 240 | | |
| L15 | 0 | 0 | 12 | 40 | -40 to +60 -20 to +60 | T4/T135°C |
| | 2622 | 4000 | 6 | 40 | | |
| L90 | 0 | 0 | 62 | 240 | | |
| | 7459 | 1800 | 39 | 240 | | |
| L15 | 0 | 0 | 11 | 40 | -40 to +70 -20 to +70 | T4/T135°C |
| | 2346 | 3200 | 7 | 40 | | |
| L90 | 0 | 0 | 58 | 240 | | |
| | 6053 | 1700 | 34 | 240 | | |
| L15 | 0 | 0 | 10 | 40 | -40 to +80 -20 to +80 | T4/T135°C |
| | 1926 | 2800 | 7 | 40 | | |
| L90 | 0 | 0 | 53 | 240 | | |
| | 5027 | 1500 | 32 | 240 | | |
| L15 | 0 | 0 | 10 | 40 | -40 to +40 -20 to +40 | T5/T100°C |
| | 1875 | 2700 | 7 | 40 | | |
| L90 | 0 | 0 | 55 | 240 | | |
| | 4765 | 1300 | 35 | 240 | | |
| L15 | 0 | 0 | 9 | 40 | -40 to +40 -20 to +40 | T6/T85°C |
| | 1256 | 2100 | 6 | 40 | | |
| L90 | 0 | 0 | 47 | 240 | | |
| | 3110 | 1100 | 27 | 240 | | |

The above ratings are continuous 100% duty cycle. The change in torque ratings with respect to duty cycle is as given below:

| Duty Cycle | Torque rating increases by |
|------------|----------------------------|
| 25% | 85% |
| 40% | 50% |
| 60% | 25% |

The duty cycle for peak torque condition is 10% i.e. 6 seconds ON and 54 seconds OFF, in a cycle time of 1 minute.

For ratings between the above stack lengths, refer to page 4 of schedule drawings CA91180, CA91181 and CB35199.

All the above ratings are at DC bus voltage of 325 volts, maximum DC bus voltage rating is 750 volts, ratings remain the same for all voltages and hence the losses also remain the same.

Installation instructions:

All cable entry devices and blanking elements shall be certified in type of explosion protection flameproof enclosure "d", dust protection "tb", suitable for the conditions of use and correctly installed.

Unused apertures shall be closed with suitable blanking elements.

For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

Mounting instructions:

Refer to "Instructions".

Routine tests

Routine tests hydrostatic pressure test according to EN 60079-1 cl. 16 are to be carried out in accordance with work instruction WI005306, for type G493 motors rated below -20°C as the enclosures have been tested at 1.5 times the reference pressure. All other type G493 motors rated -20°C and above have successfully been tested at four times the reference pressure and routine tests are not required.

Routine tests according to EN 60079-1 cl. 16 are not required, for all the type G495 and G496 motors as the enclosures have been successfully tested at four times the reference pressure.

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Report No.

Project Report No.: 13CA31502 (Hazardous Location Testing)

Documents:

| Description: | Drawing No.: | Rev. Level: | Date: |
|--|--------------|-------------|------------|
| Certification Drawing - G493L Ex Motors (4 Sheets) | CA91180 | U | 2013-08-21 |
| Certification Drawing - G495L Ex Motors (4 Sheets) | CA91181 | U | 2013-08-21 |
| Certification Drawing - G496L Ex Motors (4 Sheets) | CB35199 | B | 2013-08-21 |
| Name plate (For Gas Only) | CA94541 | G | 2013-08-21 |
| Name plate (For Gas and Dust) | CB05597 | G | 2013-08-21 |
| Installation instructions | CB07398-001 | H | 2013-07 |
| Warning Label | C88053 | B | 2013-01-21 |

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Special conditions for safe use:

- For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.
- Contact Moog for information on the dimensions of the flameproof joints.
- Yield strength of the front and rear cover assembling fasteners shall not be less than 640 MPa.
- The class of fit between the fasteners and stator frame shall be of medium fit 6H/6g.
- All cable entry devices and blanking elements shall be ATEX certified in type of explosion protection flameproof enclosure "d", dust protection "tb", suitable for the conditions of use and correctly installed.
- The drive used along to the servomotor shall be of specification as specified by manufacturer and suitable for the motor electrical specifications and operating characteristics.
- The o-rings and seal material on which the IP protection is relied on shall not be replaced.
- The motor can withstand peak torque for maximum 10% of the time.
- Each motor shall use a suitable thermal protector based on its rated ambient and surface temperature class (T-code).
- Every motor covered under this certificate shall be connected to a temperature monitoring device in field. The temperature monitoring device connected to the PTC temperature sensor in the motor shall be ATEX certified to latest edition of the EN 50495 standard.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The servo motor models G493, G495, and G496 have in addition passed the tests for Ingress Protection to IP 65 and IP67 as applicable in accordance with EN60529: 1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

