



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 ULD 16.0005X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 6 Issue 5 (2021-03-12)
Date of Issue: 2021-07-15 Issue 4 (2020-03-19)
Applicant: **R. STAHL HMI Systems GmbH** Issue 3 (2018-07-23)
Adolf-Grimme Allee 8 Issue 2 (2017-12-14)
50829 Köln Issue 1 (2017-07-26)
Germany Issue 0 (2016-04-06)
Equipment: **Pan and Tilt Units, Models EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-* / EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0) series and EC-95* series.**
Optional accessory:
Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**
Marking: **EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-* / EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0) series:**
Ex db IIC T6 Gb or
Ex db IIC T6...T1 Gb
and
Ex tb IIIC T85°C Db or
Ex tb IIIC T85°C...T450°C Db
EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-*:
-40°C ≤ Ta ≤ +60°C
EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0):
-40°C ≤ Ta ≤ +50°C
or +55°C, or +60°C, or +65°C
or +70°C, or +75°C, or +80°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2021-07-15

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Certificate issued by:

UL International DEMKO A/S
Borupvang 5A
DK-2750 Ballerup
Denmark





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EC-95* series:

Ex db IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db

EC-95*:

-40°C ≤ Ta ≤ +50°C

or +60°C, or +70°C, or +75°C

Please see Annex for additional information.



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Manufacturer: **R. STAHL HMI Systems GmbH**
Adolf-Grimme Allee 8
50829 Köln
Germany

Additional
manufacturing
locations:

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Reports:

[DK/ULD/ExTR16.0005/00](#)
[DK/ULD/ExTR16.0005/03](#)
[DK/ULD/ExTR16.0005/06](#)

[DK/ULD/ExTR16.0005/01](#)
[DK/ULD/ExTR16.0005/04](#)

[DK/ULD/ExTR16.0005/02](#)
[DK/ULD/ExTR16.0005/05](#)

Quality Assessment Report:

[DE/BVS/QAR06.0007/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-* / EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0) and EC-95* series housings contain an integrated fully functional camera head system handling preset, autopan and patrol functions with an integrated wiper. The housings are comprised of the following compartments: a static terminal compartment base, a main body providing 360° continuous pan movement and either one or two camera housings with +90° to -90° tilt movement. The EC-940-PTZ-A, EC-940-DUA and EC-98* series housings are fitted with a standard day/night camera. The EC-940-PTZ and EC-94* (with * other than 0) are fitted with a Full HD day/night camera. The EC-940-DUA and EC-98* series housings are additionally fitted with an infra-red camera. The EC-95* is additionally fitted with white light or infrared 850nm wavelength LEDs. The EC-84* (with * other than 0) series housing is fitted with an infra-red camera.

The terminal compartment provides one or two 3/4" NPT (M25 x 1.5 as an alternative) cable entry to the side of the projecting cylinder welded to its enclosure for end user connection to either cable connectors or a conduit system depended on application. Access to the terminal enclosure for termination of supply or replacement of either of the two fitted fuses or inputs and outputs is via a threaded cover closing off the projected cylinder. The top threaded cover provides a shaft for connection to the main enclosure body, which is fitted with a slip ring, providing cable connection from the terminal compartment into the main body enclosure.

The main body is cylindrical in shape with two externally welded cylindrical spigot arms with female threaded apertures projecting from it 180° apart that can be used for connection of either a camera housing, LED illuminator housing or closed off with a threaded cover. The EC-940-PTZ, EC-94* (with * other than 0) and EC-84* (with * other than 0) series are provided with only one externally welded cylindrical spigot arms. Internal circuitry consists of a thermostat board maintaining a minimum internal temperature when the equipment is powered. With one of two thermostats fitted in series switching off the circuit when the temperature is reached. The base of the main body provides a female thread for connection to the terminal compartment with the top of the main body closed off with a threaded cover.

The camera housing is cylindrical in shape with an externally projecting welded cylindrical spigot arm with a female threaded aperture. The aperture is fitted with a connecting shaft for connection to the main body. The ends of the housing are closed off with threaded covers. The front cover is fitted with a window cemented in place. The day/night camera housing is additionally fitted with an externally fitted window wiper and internally fitted with thermostat circuitry. The circuitry maintains a minimum internal temperature when the equipment is powered with one of two thermostats fitted in series switching off the circuit when the temperature is reached. The top of the housing is fitted with female threaded studs for connection of a sun shield. Internally the camera housing is fitted with an optical zoom.

Externally the equipment, other than the cemented windows, is manufactured from passivated, electro-polished AiSi 316L stainless steel.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Contact the manufacturer for information on the dimensions of the flameproof joints.
- The unit can be only installed in standard or inverted position.
- Ambient temperature and Surface temperature – see instructions.
- Care shall be taken to prevent accumulation of electrostatic charges. See installation instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Standards updated to latest editions.

Issue 2: Change of Applicant and Manufacturer's designation from R. STAHL Camera Systems GmbH to R. STAHL HMI Systems GmbH. Modified routine testing and updated QAR.

Issue 3: Addition of new HD night/day camera for model EC-940-PTZ-*.

Issue 4: Addition of new series EC-94* (with * other than 0), EC-98* and EC-84*; Increase of maximum ambient temperature up to +80°C; Determination of maximum service temperature and maximum surface temperature; Update of IEC 60079-0 from 6th Edition to 7th Edition.

Issue 5: For all models: Addition of alternate components. For EC-94* (with * other than 0), EC-98* and EC-84* series only: Addition of input rating and extension of maximum dissipated power (W) within each camera housing.

Issue 6: Addition of new model EC-95*.

Annex:

[Annex to IECEx ULD 16.0005X Issue 6.pdf](#)



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TYPE DESIGNATION

Product Nomenclature:

EC-940-PTZ-A*, EC-940-PTZ-* and EC-940-DUA-* series.

Model: EC-940-PTZ-Aaa-bcd-ee

Where:

| | | | |
|----|--------------|----|---|
| aa | Camera | 3P | 36x optical zoom, PAL |
| | | 2P | 28x optical zoom, PAL |
| | | 3N | 36x optical zoom, NTSC |
| | | 2N | 28x optical zoom, NTSC |
| b | Accessory | W | With wiper |
| c | Voltage | 1 | 230Vac |
| | | 2 | 24Vac |
| | | 3 | 120Vac |
| d | Video output | 0 | Analog version |
| | | X | Integrated MPEG4 video server to control all functions via IP |
| | | F | Integrated Single Mode video and data fiber optic transmitter |
| | | G | Integrated Multi Mode video and data fiber optic transmitter |
| | | Z | Integrated H264 video server to control all functions via IP |
| ee | Variation | ** | Empty or for internal use |

Model: EC-940-PTZ-aab-cdeff

Where:

| | | | |
|----|--------------|----|--|
| aa | Camera | HD | HD Camera day/night, 30x optical Zoom |
| | | HF | HD Camera day/night, 30x high sensitivity |
| b | Video output | I | Integrated H264 video server to control all functions via IP |
| c | Accessory | W | With wiper |
| d | Voltage | 1 | 230Vac |
| | | 2 | 24Vac |
| | | 3 | 120Vac |
| e | Release | * | Empty – first release |
| | | B | Second release |
| ff | Variation | ** | Empty or for internal use |



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Model: EC-940-DUA-abb-cdd-eef-ghi-ll

Where:

| | | | |
|----|--------------------------|---------|---|
| a | Type of camera | A | Analog camera day/night |
| bb | Camera | 3P | 36x optical zoom, PAL |
| | | 2P | 28x optical zoom, PAL |
| | | 3N | 36x optical zoom, NTSC |
| | | 2N | 28x optical zoom, NTSC |
| c | Type of camera | A | Analog TIC camera |
| dd | Lens size thermal camera | 35 | 35mm lens |
| | | 25 | 25mm lens |
| | | 19 | 19mm lens |
| | | 13 | 13mm lens |
| | | 09 | 9mm lens |
| ee | Thermal camera | 16 | Tau 160 |
| | | 32 | Tau 320 |
| | | 33 | Tau 336 |
| | | 64 | Tau 640 |
| f | Wiper | W | With wiper |
| g | Voltage | 1 | 230Vac |
| | | 2 | 24Vac |
| | | 3 | 120Vac |
| h | Video output | 0 | Analog version |
| | | X | Integrated MPEG4 video server to control all functions via IP |
| | | F | Integrated Single Mode video and data fiber optic transmitter |
| | | G | Integrated Multi Mode video and data fiber optic transmitter |
| | | Z | Integrated H264 video server to control all functions via IP |
| i | Thermal camera frequency | No code | 7.5-8.3 Hz |
| | | H | 25-30 Hz |
| ll | Variation | ** | Empty or for internal use |



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EC-94* (with * other than 0), EC-98* and EC-84* (with * other than 0) series.

Model: EC-94a-bbccccdeeee

Where:

| | | | |
|------|----------------|------|--|
| a | Release | * | For internal use (one alphanumeric character other than 0) |
| bb | Voltage | V1 | 230V ac |
| | | V2 | 24V ac |
| | | V3 | 120V ac |
| | | V5 | 220V ac |
| | | V6 | 100V ac |
| ccc | Visible camera | *** | Pre-installed visible camera (three alphanumeric character) |
| dd | Temperature | ** | T CLASS and Ambient Temperature (two alphanumeric character) |
| eeee | Variation | **** | For internal use (four alphanumeric character) |

Model: EC-98a-bbccccdddeeffggg

Where:

| | | | |
|------|--------------------------|------|--|
| a | Release | * | For internal use (one alphanumeric character other than 0) |
| bb | Voltage | V1 | 230Vac |
| | | V2 | 24Vac |
| | | V3 | 120Vac |
| | | V5 | 220V ac |
| | | V6 | 100V ac |
| ccc | Visible camera | *** | Pre-installed visible camera (three alphanumeric character) |
| dddd | Thermal camera | **** | Pre-installed thermal camera (four alphanumeric character) |
| ee | Temperature | ** | T CLASS and Ambient Temperature (two alphanumeric character) |
| ff | Thermal camera frequency | Y0 | 7.5 Hz |
| | | Y1 | 30 Hz |
| gggg | Variation | **** | For internal use (four alphanumeric character) |



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Model: EC-84a-bbccccddeeffff

Where:

| | | | |
|------|--------------------------|------|--|
| a | Release | * | For internal use (one alphanumeric character other than 0) |
| bb | Voltage | V1 | 230Vac |
| | | V2 | 24Vac |
| | | V3 | 120Vac |
| | | V5 | 220V ac |
| | | V6 | 100V ac |
| cccc | Thermal camera | **** | Pre-installed thermal camera (four alphanumeric character) |
| dd | Temperature | ** | T CLASS and Ambient Temperature (two alphanumeric character) |
| ee | Thermal camera frequency | Y0 | 7.5 Hz |
| | | Y1 | 30 Hz |
| ffff | Variation | **** | For internal use (four alphanumeric character) |

EC-95*: EC-95a-bbccccdeeffgggg

Where:

| | | | |
|------|----------------------|------|--|
| a | Release | * | For internal use (one alphanumeric character other than 0) |
| bb | Voltage | V1 | 220-230V ac |
| | | V2 | 24V ac |
| | | V3 | 120V ac |
| | | V6 | 100V ac |
| ccc | Visible light camera | *** | Pre-installed visible camera (three alphanumeric character) |
| dd | Light | L8 | 850 nm |
| | | LW | White |
| ee | Illuminator lens | ** | Pre-installed illuminator lens (two alphanumeric character) |
| ff | Temperature | ** | T CLASS and Ambient Temperature (two alphanumeric character) |
| gggg | Variation | **** | For internal use (four alphanumeric character) |

PARAMETERS RELATING TO THE SAFETY

Electrical Ratings:

EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-*:

| Supply Voltage | Electrical ratings |
|----------------|----------------------|
| 230V ac | 0.52A, 50/60Hz, 120W |
| 24V ac | 5A, 50/60Hz, 120W |
| 120V ac | 1A, 50/60Hz, 120W |



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EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0):

| Supply Voltage | Electrical ratings |
|----------------|----------------------|
| 230V ac | 0.52A, 50/60Hz, 120W |
| 24V ac | 5A, 50/60Hz, 120W |
| 120V ac | 1A, 50/60Hz, 120W |
| 220V ac | 0.54A, 50/60Hz, 120W |
| 100V ac | 1.2A, 50/60Hz, 120W |

EC-95*:

| Supply Voltage | Electrical ratings |
|----------------|--------------------------|
| 220-230V ac | 0.54A max, 50/60Hz, 120W |
| 24V ac | 5A, 50/60Hz, 120W |
| 120V ac | 1A, 50/60Hz, 120W |
| 100V ac | 1.2A, 50/60Hz, 120W |

Environmental Ratings:

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

EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-*:

| <u>Ambient temperature range</u> | <u>Temperature Class / Max. Surface Temperature</u> |
|---|---|
| $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ | T6/T85°C |

EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0):

Ambient temperature range:

$$-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}.$$

Cable entries and field wiring must be suitable for an operating temperature as specified in the following table. The relation between maximum ambient temperature, maximum dissipated power (W) within camera housings, cable entry/branching point temperatures and the assigned temperature class/maximum surface temperature is as follows.

For maximum dissipated power (W) within each camera housings $\leq 12\text{W}$:

| Temperature Class | T6/T85°C | | | | | | |
|---|----------|------|------|------|------|------|------|
| | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| T Ambient | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| Max. dissipated Power [W] for each camera housing | 12.0 | 11.0 | 8.2 | 5.3 | 2.5 | - | - |
| T Cable [°C] | 60.9 | 65.3 | 68.7 | 72.1 | 75.5 | - | - |



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Note: All models which meet the requirements for T6/T85°C are also permitted to be marked T5/T100°C, T4/T135°C, T3/T200°C, T2/T300°C or T1/T450°C.

| Temperature Class | T5/T100°C | | | | | | |
|---|-----------|------|------|------|------|------|------|
| T Ambient [°C] | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| Max. dissipated Power [W] for each camera housing | 12.0 | 12.0 | 12.0 | 12.0 | 11.0 | 8.2 | 5.3 |
| T Cable [°C] | 60.9 | 65.9 | 70.9 | 75.9 | 80.3 | 83.7 | 87.1 |

Note: All models which meet the requirements for T5/T100°C are also permitted to be marked T4/T135°C, T3/T200°C, T2/T300°C or T1/T450°C.

| Temperature Class | T4/T135°C | | | | | | |
|---|-----------|------|------|------|------|------|------|
| T Ambient | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| Max. dissipated Power [W] for each camera housing | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 9.6 |
| T Cable [°C] | 60.9 | 65.9 | 70.9 | 75.9 | 80.9 | 85.9 | 89.5 |

Note: All models which meet the requirements for T4/T135°C are also permitted to be marked T3/T200°C, T2/T300°C or T1/T450°C.

For maximum dissipated power (W) within each camera housings of $12 < W \leq 16$:

| Temperature Class / Max. Surface Temperature | T5/T100°C | T4/T135°C |
|---|------------------|------------------|
| T Ambient | 50°C | 60°C |
| Max. dissipated Power [W] for each camera housing | $12 < W \leq 16$ | $12 < W \leq 16$ |
| T Cable [°C] | 80°C | 80°C |



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EC-95*:

Ambient temperature range:

$$-40^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C}.$$

Cable entries and field wiring must be suitable for an operating temperature as specified in the following table. The relation between ambient temperature range, cable entry/branching point temperatures and the assigned temperature class/maximum surface temperature is as follows.

For maximum dissipated power (W) within visible camera housing $\leq 12\text{W}$:

| <u>Temperature Class / Max. Surface Temperature</u> | <u>T6 / T85°C</u> | <u>T5 / T100°C</u> | <u>T4 / T135°C</u> | <u>T4 / T135°C</u> |
|---|-------------------------------|--------------------|--------------------|--------------------|
| <u>T Ambient max. [°C]</u> | <u>50°C</u> | <u>60°C</u> | <u>70°C</u> | <u>75°C</u> |
| <u>Max. dissipated Power [W] for visible camera housing</u> | <u>$W \leq 12$</u> | | | |
| <u>T Cable [°C]</u> | <u>66.8°C</u> | <u>76.8°C</u> | <u>86.8°C</u> | <u>91.8°C</u> |

For maximum dissipated power (W) within visible camera housing of $12 < W \leq 16$:

| <u>Temperature Class / Max. Surface Temperature</u> | <u>T6 / T85°C</u> | <u>T5 / T100°C</u> | <u>T4 / T135°C</u> |
|---|---------------------------------------|--------------------|--------------------|
| <u>T Ambient max. [°C]</u> | <u>40°C</u> | <u>50°C</u> | <u>60°C</u> |
| <u>Max. dissipated Power [W] for visible camera housing</u> | <u>$12 < W \leq 16$</u> | | |
| <u>T Cable [°C]</u> | <u>56.8°C</u> | <u>66.8°C</u> | <u>76.8°C</u> |



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

EC-940-PTZ-A* / EC-940-PTZ-* / EC-940-DUA-*

| | | | |
|--|---|--|------------------------------|
|  <p>R. STAHL HMI Systems GmbH Adolf-Grimme Allee 8 50829 Köln Germany</p> |  | <p>8 DEMKO 16 ATEX 1674X II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T85°C Db</p> | <p>10 IP66</p> |
| <p>2 Model:</p> | | | <p>11 -40°C ≤ Ta ≤ +60°C</p> |
| <p>3 Serial N°:</p> | | <p>9 IECEx ULD 16.0005X Ex db IIC T6 Gb Ex tb IIIC T85°C Db</p> | |
| <p>4 Electrical:</p> | | | |
| <p>5 Cable entry size: 3/4" NPT</p> | | | |
| <p>6 Warning! Do not open when an explosive atmosphere is present Potential electrostatic charging hazard - see instructions</p> |  |  | |

Where:

| | |
|----|---|
| 1 | Name and address of manufacturer |
| 2 | Model |
| 3 | The serial number consists in 12 numeric characters, the second and third digits define the last 2 numbers of the year of manufacture |
| 4 | Electrical rating |
| 5 | Type and size of cable entry |
| 6 | Warnings |
| 7 | Notified body number providing quality assessment |
| 8 | ATEX marking |
| 9 | IECEx marking |
| 10 | IP protection |
| 11 | Ambient temperature |







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EC-94* (with * other than 0) / EC-98* / EC-84* (with * other than 0).

| | | | |
|---|---|--|---|
|  | R. STAHL HMI Systems GmbH Adolf-Grimme Allee 8 50829 Köln ^① Germany | |  |
| | Model: <input type="text" value="2"/> | IP66/IP68 <input type="text" value="11"/> | |
| Serial N°: <input type="text" value="3"/> | | | |
| Electrical: <input type="text" value="4"/> | | | |
| Cable entry size: <input type="text" value="5"/> | | | |
|  | WARNING - Do not open when an explosive atmosphere is present WARNING - Potential electrostatic charging hazard - see instructions AVERTISSEMENT - Ne pas ouvrir en présence d'une atmosphère explosive AVERTISSEMENT - Danger potentiel de charges électrostatiques - Voir instructions | | |
| <input type="text" value="7"/> | | | |
| <input type="text" value="9"/> DEMKO 16 ATEX 1674X | <input type="text" value="10"/> IECEx ULD 16.0005X |  <input type="text" value="8"/> | |
| <input type="text" value="12"/> Gb <input type="text" value="13"/> Db | <input type="text" value="12"/> Gb <input type="text" value="13"/> Db | | |
| -40°C ≤ Ta ≤ <input type="text" value="14"/> | Cable entry temperature: <input type="text" value="6"/> | | |

Where:

| | |
|----|---|
| 1 | Name and address of manufacturer |
| 2 | Model |
| 3 | QAR code for serial number. The serial number consists in 12 numeric characters, the second and third digits define the last 2 numbers of the year of manufacture |
| 4 | Electrical rating |
| 5 | Type, size and number of cable entries |
| 6 | Cable entry temperature |
| 7 | Warnings |
| 8 | Notified body number providing quality assessment |
| 9 | ATEX marking |
| 10 | IECEx marking |
| 11 | IP protection |
| 12 | T Class |
| 13 | Maximum surface temperature |
| 14 | Maximum ambient temperature |








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EC-95*

| | | | |
|---|---|---------------------------------|--|
|  | R. STAHL HMI Systems GmbH Adolf-Grimme Allee 8 50829 Köln ^① Germany | |  ^③ |
| | Model: <input type="text" value="②"/> | IP66/IP68 ^⑪ | |
| Serial N°: <input type="text" value="③"/> | | |  |
| Electrical: <input type="text" value="④"/> | | | |
| Cable entry size: <input type="text" value="⑤"/> | | | |
|  ^⑦ | WARNING - Do not open when an explosive atmosphere is present WARNING - Potential electrostatic charging hazard - see instructions AVERTISSEMENT - Ne pas ouvrir en présence d'une atmosphère explosive AVERTISSEMENT - Danger potentiel de charges électrostatiques - Voir instructions | | |
| | ^⑨ DEMKO 16 ATEX 1674X | ^⑩ IECEx ULD 16.0005X |  <input type="text" value="⑧"/> |
| $\text{Ex II 2G Ex db IIC}$ <input type="text" value="⑫"/> Gb | Ex db IIC <input type="text" value="⑫"/> Gb | | |
| $\text{Ex II 2D Ex tb III C}$ <input type="text" value="⑬"/> Db | Ex tb III C <input type="text" value="⑬"/> Db | | |
| $-40^{\circ}\text{C} \leq \text{Ta} \leq$ <input type="text" value="⑭"/> | Cable entry temperature: <input type="text" value="⑥"/> | | |

Where:

| | |
|----|---|
| 1 | Name and address of manufacturer |
| 2 | Model |
| 3 | QAR code for serial number. The serial number consists in 12 numeric characters, the second and third digits define the last 2 numbers of the year of manufacture |
| 4 | Electrical rating |
| 5 | Type, size and number of cable entries |
| 6 | Cable entry temperature |
| 7 | Warnings |
| 8 | Notified body number providing quality assessment |
| 9 | ATEX marking |
| 10 | IECEx marking |
| 11 | IP protection |
| 12 | T Class |
| 13 | Maximum surface temperature |
| 14 | Ambient temperature |



IECEx Certificate of Conformity

Certificate No.: IECEx ULD 16.0005X

Issue No.: 6

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ROUTINE EXAMINATIONS AND TESTS

Routine overpressure tests in accordance with IEC 60079-1, 7th Edition, clause 16.3, are required in production of the following component parts:

- Main body enclosure, except upper and lower covers;
- Standard camera enclosure, body and front cover only;
- Infra-red camera enclosure, body and front cover only;
- Illuminator enclosure, body and front cover only; and
- Terminal compartment housing and welded upper cover.

Each enclosure component shall be subjected to a routine overpressure test value of a pressure of 31.3 bar for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.