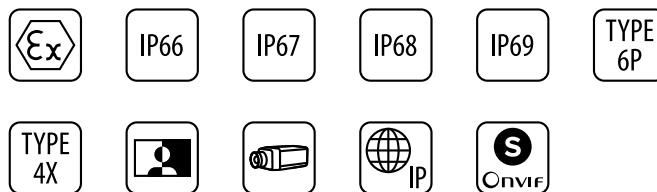


# MAXIMUS MVXT

HIGH-SPEC EX-PROOF THERMAL CAMERA IN A COMPACT DESIGN



MAXIMUS MVXT + NXWBS1

## DESCRIPTION

The explosion-protected MAXIMUS MVXT thermal camera is perfect for effective video surveillance and process control in harsh settings where the presence of gases or flammable dust can create a potentially explosive environment, a reality often found in the oil and gas industries or marine and industrial sectors.

The thermal camera is able to detect a person or an object in the most difficult environmental conditions, such as total darkness or other levels of lighting, heavy smoke, rain or dust and across long distances.

One striking advantage offered by these cameras is their extremely easy and secure "plug and play" installation, with multipolar wiring. These cameras arrive ready to use, avoiding the complex electrical connections that are typical of this type of device.

The housing is compact yet functional and is made entirely out of AISI316L stainless steel. Its resistance to corrosion is not only guaranteed, but is also enhanced by way of polishing processes.

Another important feature of the camera is the extended certification temperature range of -60°C to 65°C, along with a sophisticated cold start system, which allows it to operate in harsh environments as standard.

An equally noteworthy point is that the IP66/IP68 ratings guarantee the complete protection against harsh weather and submersion in up to 5 metres of water for 2 hours. Moreover, the IP69 rating allows the device to be cleaned with high pressure water jets.

The MAXIMUS MVX range of cameras meets every installation need, providing maximum performance and excellent value for money.

## CERTIFICATIONS



## MAIN FEATURES

Certifications for use in Zones 1 and 2, IIC T5 and T6 Group (Gas) and in Zones 21 and 22, IIIC T100°C and T85°C Group (Dust)

AISI 316L stainless steel construction

Shot peened and electro-polished outside surfaces

Analogue or IP (ONVIF S) versions

Thermal cameras:

- Sensor: Uncooled microbolometer (VOx)
- Lenses: 9mm, 13mm, 19mm, 25mm, 35mm, 50mm, 60mm
- Resolution 336x256 or 640x512
- Image frequency: 8.3Hz or 25Hz

1 alarm input and 1 relay output

4m (13ft) / 10m (33ft) preinstalled armoured multipolar cable with cable gland or, alternatively, with 4m (13ft) / 10m (33ft) cable tail

Power supply: 12-24Vdc/24Vac

IP66/IP67/IP68/IP69

## TECHNICAL DATA

### GENERAL

AISI 316L stainless steel construction

Shot peened and electro-polished outside surfaces

Silicone O-ring seals

Configuration via OSM

### MECHANICAL

Sunshield

Unit weight:

- 8.5kg (18.7lb) (housing with 4m multi-polar cable shield)
- 12kg (26.5lb) (housing with 10m multi-polar cable shield)

### CABLE GLANDS

Cable entry: 1 hole, 3/4", NPT

Cable gland with gasket Ex d 3/4"NPT and 4m/10m (13ft/33ft) preinstalled multipolar armored cable or with 4m/10m (13ft/33ft) cable tail

### HOUSING'S WINDOW

Germanium window (big grid)

- Usable diameter: 57mm
- Thick: 10mm (0.4in)
- External treatment: antiscratch (Hard Carbon Coating - DLC), antireflection
- Internal treatment: antireflection
- Spectral range: from 7.5µm up to 14µm
- Medium transmittance (from 7.5µm up to 11.5µm): 87.3%
- Medium transmittance (from 11.5µm up to 14µm): 67.3%

Germanium window (small grid)

- Usable diameter: 40mm (1.6in)
- Thick: 8mm (0.3in)
- External treatment: antiscratch (Hard Carbon Coating - DLC), antireflection
- Internal treatment: antireflection
- Spectral range: from 7.5µm up to 14µm
- Medium transmittance (from 7.5µm up to 11.5µm): 87.5%
- Medium transmittance (from 11.5µm up to 14µm): 72.1%

### ELECTRICAL

Supply voltage/Current consumption

- 24Vac, 2.2A, 50/60Hz
- 24Vdc, 2.2A
- 12Vdc, 3.5A

Heater (Ton 15°C±3°C (59°F±5°F), Toff 22°C±3°C (72°F±5°F))

Armoured cable:

- external diameter = 20.00 ± 0.50mm (0.79±0.20in)
- diameter under armature = 15.20mm (0.60in)
- colour: Black RAL9005

Armoured cable composition:

- 3 x 2.5mm<sup>2</sup>
- 7 x 0.34mm<sup>2</sup>
- 4 x 2 x 0.22mm<sup>2</sup> (IP-based version, cat. 5E)
- 1 x coax 75ohm RG179 (analog version)

Cable tail composition:

- 3 x 2.5mm<sup>2</sup>, rated external diameter = 8.7mm (0.34in)
- 7 x 0.34mm<sup>2</sup>, rated external diameter = 6.4mm (0.25in)
- 4 x 2 x 0.21mm<sup>2</sup>, (IP-based version, cat. 5E), rated external diameter = 6.7mm (0.26in)
- 1 x coax 75ohm RG59 (analog version), rated external diameter = 4.9mm (0.19in)

### NETWORK

Connector (only for the IP versions of the product):

- RJ45, 10BASE-T/100BASE-T

### SERIAL COMMUNICATIONS

Serial interface

- RS-485 line, half-duplex
- Cable length: 1200m max
- Addressable units: 255 (configuration via OSM)

Serial communication protocol

- PANASONIC 850: 9600baud, 19200baud
- PELCO D: 2400baud, 9600baud
- VIDEOTEC MACRO: 9600baud, 38400baud

### VIDEO

IP version:

Video encoder

- Communication protocol: ONVIF, Profile S
- Device configuration: TCP/IPv4-IPv6, UDP/IPv4-IPv6, HTTP, NTP, DHCP, WS-DISCOVERY, QoS, IGMP (Multicast)
- Streaming: RTSP, RTCP, RTP/IPv4
- Video compression: H.264/AVC, MJPEG
- Independent video streams: 2
- Image resolution: from Full D1 (720x576 for PAL, 720x480 for NTSC) to 352x240 in 18 steps
- Web Server

## I/O INTERFACE

I/O alarm board

- Alarm inputs: 1
- Relay outputs: 1 (1A, 30Vac/60Vdc max)

Cable length: 200m (656ft) max (analog version)

## ENVIRONMENT

For installation indoors and outdoors

Operating temperature:

- Cold start from -40°C (-40°F) up to +65°C (149°F)
- Running from -50°C (-58°F) up to +65°C (149°F)

Relative humidity: from 10% up to 95% (no condensation)

## CERTIFICATIONS

ATEX (EN 60079-0: 2012, EN 60079-1: 2014, EN 60079-31: 2014)

IECEX (IEC 60079-0: 2011 Ed.6, IEC 60079-1: 2014-06 Ed.7, IEC 60079-31: 2013 Ed.2)

INMETRO (ABNT NBR IEC 60079-0:2008 + Errata 1:2011, ABNT NBR IEC 60079-1:2009 + Errata 1:2011, ABNT NBR IEC 60079-31:2011)

EAC Ex (TR CU 012/2011)

ETL listed for USA (UL 60079-0: Ed: 6, UL 60079-1:Ed:6, UL 60079-31: Ed.2), cable tail versions

ETL listed for Canada (C22.2-60079-0:2015, CSA C22.2-60079-1Ed: 2 CSA C22.2-60079-31Ed: 1), cable tail versions

TYPE 6P, TYPE 4X (UL50E)

IP69 (EN/IEC60529), housing only

IP66/IP67/IP68 (2 hours, 5m (16ft), EN/IEC60529)

## ACCESSORIES

OCTEXP3/4C Conduit cable gland nickel-plated brass 3/4" NPT IECEX-ATEX- c CSA us - EAC Ex (operating temperature: from -60°C (-76°F) up to +80°C (+176°F))

## BRACKETS AND ADAPTORS

|          |                                                    |
|----------|----------------------------------------------------|
| NXWBS1   | AISI 316L stainless steel wall bracket with joint  |
| MHXWFWCA | AISI316L stainless steel ball joint                |
| NXFWBT   | AISI 316L stainless steel parapet mounting bracket |
| NXCOL    | AISI 316L stainless steel pole adapter module      |
| NXCW     | AISI 316L stainless steel corner adapter module    |

## PACKAGE

| Model Number  | Weight        | Dimensions (WxHxL)      | Master carton |
|---------------|---------------|-------------------------|---------------|
| MVXT2AOSAZ00A | 12.5kg (28lb) | 60x30x60cm (24x12x24in) | -             |

**THERMAL CAMERAS (RESOLUTION 336X256)**

|                                                   | Lens 9mm                                       |         | Lens 13mm                                        |         | Lens 19mm                                        |         | Lens 25mm                                         |         | Lens 35mm                                         |         | Lens 50mm                                           |         | Lens 60mm                                           |         |
|---------------------------------------------------|------------------------------------------------|---------|--------------------------------------------------|---------|--------------------------------------------------|---------|---------------------------------------------------|---------|---------------------------------------------------|---------|-----------------------------------------------------|---------|-----------------------------------------------------|---------|
|                                                   | PAL                                            | NTSC    | PAL                                              | NTSC    | PAL                                              | NTSC    | PAL                                               | NTSC    | PAL                                               | NTSC    | PAL                                                 | NTSC    | PAL                                                 | NTSC    |
| Image sensor                                      | Uncooled VOx microbolometer                    |         | Uncooled VOx microbolometer                      |         | Uncooled VOx microbolometer                      |         | Uncooled VOx microbolometer                       |         | Uncooled VOx microbolometer                       |         | Uncooled VOx microbolometer                         |         | Uncooled VOx microbolometer                         |         |
| Interpolated resolution                           | 640x512                                        | 640x480 | 640x512                                          | 640x480 | 640x512                                          | 640x480 | 640x512                                           | 640x480 | 640x512                                           | 640x480 | 640x512                                             | 640x480 | 640x512                                             | 640x480 |
| Pixel dimensions                                  | 17µm                                           |         | 17µm                                             |         | 17µm                                             |         | 17µm                                              |         | 17µm                                              |         | 17µm                                                |         | 17µm                                                |         |
| Spectral response - long wave infrared (LWIR)     | from 7.5µm to 13.5µm                           |         | from 7.5µm to 13.5µm                             |         | from 7.5µm to 13.5µm                             |         | from 7.5µm to 13.5µm                              |         | from 7.5µm to 13.5µm                              |         | from 7.5µm to 13.5µm                                |         | from 7.5µm to 13.5µm                                |         |
| Internal shutter (only for sensor compensation)   | Video stop < 1sec.                             |         | Video stop < 1sec.                               |         | Video stop < 1sec.                               |         | Video stop < 1sec.                                |         | Video stop < 1sec.                                |         | Video stop < 1sec.                                  |         | Video stop < 1sec.                                  |         |
| Digital Detail Enhancement (DDE)                  | ✓                                              |         | ✓                                                |         | ✓                                                |         | ✓                                                 |         | ✓                                                 |         | ✓                                                   |         | ✓                                                   |         |
| Digital Zoom                                      | 2x, 4x                                         |         | 2x, 4x                                           |         | 2x, 4x                                           |         | 2x, 4x                                            |         | 2x, 4x                                            |         | 2x, 4x                                              |         | 2x, 4x                                              |         |
| Image updating frequency                          | 8.3fps                                         | 7.5fps  | 8.3fps                                           | 7.5fps  | 8.3fps                                           | 7.5fps  | 8.3fps                                            | 7.5fps  | 8.3fps                                            | 7.5fps  | 8.3fps                                              | 7.5fps  | 8.3fps                                              | 7.5fps  |
| Image updating high frequency                     | 25fps                                          | 30fps   | 25fps                                            | 30fps   | 25fps                                            | 30fps   | 25fps                                             | 30fps   | 25fps                                             | 30fps   | 25fps                                               | 30fps   | 25fps                                               | 30fps   |
| Scene range (High Gain)                           | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)             |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)               |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)               |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                  |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                  |         |
| Scene range (Low Gain)                            | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)            |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)              |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)              |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)               |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)               |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)                 |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)                 |         |
| Horizontal field of view                          | 35°                                            |         | 25°                                              |         | 17°                                              |         | 13°                                               |         | 9,3°                                              |         | 6,5°                                                |         | 5,5°                                                |         |
| Vertical field of view                            | 27°                                            |         | 19°                                              |         | 13°                                              |         | 10°                                               |         | 7,1°                                              |         | 5°                                                  |         | 4,2°                                                |         |
| F-number                                          | F/1.25                                         |         | F/1.25                                           |         | F/1.25                                           |         | F/1.1                                             |         | F/1.2                                             |         | F/1.2                                               |         | F/1.25                                              |         |
| Thermal sensitivity (NEΔT)                        | < 50mK to f/1.0                                |         | < 50mK to f/1.0                                  |         | < 50mK to f/1.0                                  |         | < 50mK to f/1.0                                   |         | < 50mK to f/1.0                                   |         | < 50mK to f/1.0                                     |         | < 50mK to f/1.0                                     |         |
| Person (detection / recognition / identification) | 285m / 71m / 36m<br>(935ft / 233ft / 118ft)    |         | 440m / 112m / 56m<br>(1443ft / 236ft / 183ft)    |         | 640m / 160m / 80m<br>(2099ft / 524ft / 262ft)    |         | 930m / 230m / 116m<br>(3051ft / 754ft / 380ft)    |         | 1280m / 320m / 160m<br>(4199ft / 1049ft / 525ft)  |         | 1700m / 430m / 215m<br>(5577ft / 1410ft / 715ft)    |         | 2000m / 510m / 255m<br>(6561ft / 1673ft / 836ft)    |         |
| Auto (detection / recognition / identification)   | 880m / 220m / 108m<br>(2887ft / 722ft / 354ft) |         | 1340m / 340m / 170m<br>(4396ft / 1115ft / 557ft) |         | 1950m / 500m / 250m<br>(6397ft / 1640ft 820/ ft) |         | 2800m / 710m / 360m<br>(9186ft / 2329ft / 1181ft) |         | 3850m / 950m / 295m<br>(12631ft / 3116ft / 967ft) |         | 5100m / 1320m / 660m<br>(16732ft / 4330ft / 2165ft) |         | 6000m / 1560m / 780m<br>(19685ft / 5118ft / 2559ft) |         |

**THERMAL CAMERAS (RESOLUTION 640X512)**

|                                                   | Lens 9mm                                    |         | Lens 13mm                                       |         | Lens 19mm                                        |         | Lens 25mm                                        |         | Lens 35mm                                        |         | Lens 50mm                                         |         | Lens 60mm                                           |         |
|---------------------------------------------------|---------------------------------------------|---------|-------------------------------------------------|---------|--------------------------------------------------|---------|--------------------------------------------------|---------|--------------------------------------------------|---------|---------------------------------------------------|---------|-----------------------------------------------------|---------|
|                                                   | PAL                                         | NTSC    | PAL                                             | NTSC    | PAL                                              | NTSC    | PAL                                              | NTSC    | PAL                                              | NTSC    | PAL                                               | NTSC    | PAL                                                 | NTSC    |
| Image sensor                                      | Uncooled VOx microbolometer                 |         | Uncooled VOx microbolometer                     |         | Uncooled VOx microbolometer                      |         | Uncooled VOx microbolometer                      |         | Uncooled VOx microbolometer                      |         | Uncooled VOx microbolometer                       |         | Uncooled VOx microbolometer                         |         |
| Resolution                                        | 640x512                                     | 640x480 | 640x512                                         | 640x480 | 640x512                                          | 640x480 | 640x512                                          | 640x480 | 640x512                                          | 640x480 | 640x512                                           | 640x480 | 640x512                                             | 640x480 |
| Pixel dimensions                                  | 17µm                                        |         | 17µm                                            |         | 17µm                                             |         | 17µm                                             |         | 17µm                                             |         | 17µm                                              |         | 17µm                                                |         |
| Spectral response - long wave infrared (LWIR)     | from 7.5µm to 13.5µm                        |         | from 7.5µm to 13.5µm                            |         | from 7.5µm to 13.5µm                             |         | from 7.5µm to 13.5µm                             |         | from 7.5µm to 13.5µm                             |         | from 7.5µm to 13.5µm                              |         | from 7.5µm to 13.5µm                                |         |
| Internal shutter (only for sensor compensation)   | Video stop < 1sec.                          |         | Video stop < 1sec.                              |         | Video stop < 1sec.                               |         | Video stop < 1sec.                               |         | Video stop < 1sec.                               |         | Video stop < 1sec.                                |         | Video stop < 1sec.                                  |         |
| Digital Detail Enhancement (DDE)                  | ✓                                           |         | ✓                                               |         | ✓                                                |         | ✓                                                |         | ✓                                                |         | ✓                                                 |         | ✓                                                   |         |
| Digital Zoom                                      | 2x, 4x, 8x                                  |         | 2x, 4x, 8x                                      |         | 2x, 4x, 8x                                       |         | 2x, 4x, 8x                                       |         | 2x, 4x, 8x                                       |         | 2x, 4x, 8x                                        |         | 2x, 4x, 8x                                          |         |
| Image updating frequency                          | 8.3fps                                      | 7.5fps  | 8.3fps                                          | 7.5fps  | 8.3fps                                           | 7.5fps  | 8.3fps                                           | 7.5fps  | 8.3fps                                           | 7.5fps  | 8.3fps                                            | 7.5fps  | 8.3fps                                              | 7.5fps  |
| Image updating high frequency                     | 25fps                                       | 30fps   | 25fps                                           | 30fps   | 25fps                                            | 30fps   | 25fps                                            | 30fps   | 25fps                                            | 30fps   | 25fps                                             | 30fps   | 25fps                                               | 30fps   |
| Scene range (High Gain)                           | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)          |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)              |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)               |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)               |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)               |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                |         | -40°C ÷ +160°C<br>(-40°F ÷ +320°F)                  |         |
| Scene range (Low Gain)                            | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)         |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)             |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)              |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)              |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)              |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)               |         | -40°C ÷ +550°C<br>(-40°F ÷ +1022°F)                 |         |
| Horizontal field of view                          | 69°                                         |         | 45°                                             |         | 32°                                              |         | 25°                                              |         | 18°                                              |         | 12.4°                                             |         | 10.4°                                               |         |
| Vertical field of view                            | 56°                                         |         | 37°                                             |         | 26°                                              |         | 20°                                              |         | 14°                                              |         | 9.9°                                              |         | 8.3°                                                |         |
| F-number                                          | F/1.4                                       |         | F/1.25                                          |         | F/1.25                                           |         | F/1.1                                            |         | F/1.2                                            |         | F/1.2                                             |         | F/1.25                                              |         |
| Thermal sensitivity (NEΔT)                        | < 50mK to f/1.0                             |         | < 50mK to f/1.0                                 |         | < 50mK to f/1.0                                  |         | < 50mK to f/1.0                                  |         | < 50mK to f/1.0                                  |         | < 50mK to f/1.0                                   |         | < 50mK to f/1.0                                     |         |
| Person (detection / recognition / identification) | 250m / 63m / 31m<br>(820ft / 207ft / 102ft) |         | 390m / 95m / 47m<br>(1280ft / 312ft / 154ft)    |         | 570m / 144m / 72m<br>(1870 / 472 / 236ft)        |         | 820m / 210m / 104m<br>(2690ft / 689ft / 341ft)   |         | 1140m / 280m / 142m<br>(3740ft / 919ft / 466ft)  |         | 1500m / 380m / 190m<br>(4921ft / 1247ft / 623ft)  |         | 1750m / 450m / 225m<br>(5741ft / 1476ft / 738ft)    |         |
| Auto (detection / recognition / identification)   | 720m / 175m / 88m<br>(2362 / 574 / 289ft)   |         | 1080m / 275m / 140m<br>(3543ft / 902ft / 459ft) |         | 1550m / 400m / 200m<br>(5085ft / 1312ft / 656ft) |         | 2200m / 580m / 290m<br>(7218ft / 1903ft / 951ft) |         | 3000m / 800m / 200m<br>(9843ft / 2625ft / 656ft) |         | 3900m / 1060m / 540m<br>(12795ft / 3478ft / 1772) |         | 4500m / 1240m / 640m<br>(14764ft / 4068ft / 2100ft) |         |

| MVX RANGE - MULTIPOLAR CABLE |                                                                    |                     |
|------------------------------|--------------------------------------------------------------------|---------------------|
| Certification                | Marking                                                            | Ambient temperature |
| ATEX                         | Ⓜ II 2 G Ex d IIC T5 Gb<br>Ⓜ II 2 D Ex tb IIIC T100°C Db IP66/IP68 | -60°C ≤ Ta ≤ +65°C  |
|                              | Ⓜ II 2 G Ex d IIC T6 Gb<br>Ⓜ II 2 D Ex tb IIIC T85°C Db IP66/IP68  | -60°C ≤ Ta ≤ +55°C  |
| IECEX                        | Ex d IIC T5 Gb<br>Ex tb IIIC T100°C Db IP66/IP68                   | -60°C ≤ Ta ≤ +65°C  |
|                              | Ex d IIC T6 Gb<br>Ex tb IIIC T85°C Db IP66/IP68                    | -60°C ≤ Ta ≤ +55°C  |
| INMETRO                      | Ex d IIC T5 Gb<br>Ex tb IIIC T100°C Db IP66/IP68                   | -60°C ≤ Ta ≤ +65°C  |
|                              | Ex d IIC T6 Gb<br>Ex tb IIIC T85°C Db IP66/IP68                    | -60°C ≤ Ta ≤ +55°C  |
| EAC Ex                       | Ex II 2G Ex d IIC T5 Gb<br>Ex II 2D Ex tb IIIC T100°C Db IP66/IP68 | -60°C ≤ Ta ≤ +65°C  |
|                              | Ex II 2G Ex d IIC T6 Gb<br>Ex II 2D Ex tb IIIC T85°C Db IP66/IP68  | -60°C ≤ Ta ≤ +55°C  |

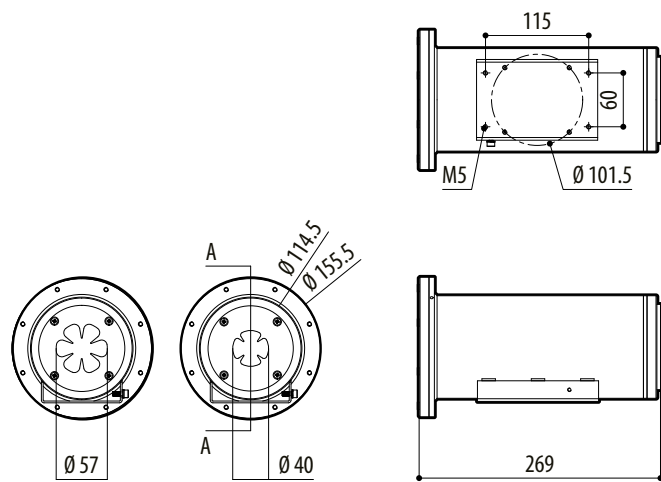
| MVX FAMILY - CABLE TAIL    |                                                                                                                                        |                     |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Certification              | Marking                                                                                                                                | Ambient temperature |
| ATEX                       | Ⓜ II 2 G Ex d IIC T5 Gb<br>Ⓜ II 2 D Ex tb IIIC T100°C Db IP66/IP68                                                                     | -50°C ≤ Ta ≤ +65°C  |
|                            | Ⓜ II 2 G Ex d IIC T6 Gb<br>Ⓜ II 2 D Ex tb IIIC T85°C Db IP66/IP68                                                                      | -50°C ≤ Ta ≤ +55°C  |
| IECEX                      | Ex d IIC T5 Gb<br>Ex tb IIIC T100°C Db IP66/IP68                                                                                       | -50°C ≤ Ta ≤ +65°C  |
|                            | Ex d IIC T6 Gb<br>Ex tb IIIC T85°C Db IP66/IP68                                                                                        | -50°C ≤ Ta ≤ +55°C  |
| INMETRO                    | Ex d IIC T5 Gb<br>Ex tb IIIC T100°C Db IP66/IP68                                                                                       | -50°C ≤ Ta ≤ +65°C  |
|                            | Ex d IIC T6 Gb<br>Ex tb IIIC T85°C Db IP66/IP68                                                                                        | -50°C ≤ Ta ≤ +55°C  |
| EAC Ex                     | Ex II 2G Ex d IIC T5 Gb<br>Ex II 2D Ex tb IIIC T100°C Db IP66/IP68                                                                     | -50°C ≤ Ta ≤ +65°C  |
|                            | Ex II 2G Ex d IIC T6 Gb<br>Ex II 2D Ex tb IIIC T85°C Db IP66/IP68                                                                      | -50°C ≤ Ta ≤ +55°C  |
| Hazardous Location America | Class I Zone 1 AEx d IIC T5 Gb<br>Class I Div 2 Group A,B,C&D T5<br>Zone 21 AEx tb IIIC T100°C Db<br>Class II Div 2 Group E,F&G T100°C | -50°C ≤ Ta ≤ +65°C  |
|                            | Class I Zone 1 AEx d IIC T6 Gb<br>Class I Div 2 Group A,B,C&D T6<br>Zone 21 AEx tb IIIC T85°C Db<br>Class II Div 2 Group E,F&G T85°C   | -50°C ≤ Ta ≤ +55°C  |
| Hazardous Location Canada  | Ex d IIC T5 Gb<br>Class I Div 2 Group A,B,C,D T5<br>Ex tb IIIC T100°C Db<br>Class II Div 2 Group E, F and G T100°C                     | -50°C ≤ Ta ≤ +65°C  |
|                            | Ex d IIC T6 Gb<br>Class I Div 2 Group A,B,C,D T6<br>Ex tb IIIC T85°C Db<br>Class II Div 2 Group E, F and G T85°C                       | -50°C ≤ Ta ≤ +55°C  |

| MAXIMUS MVXT- CONFIGURATION OPTIONS WITH CABLE GLAND WITH GASKET AND SHIELDED CABLE |                             |                                           |          |                                                                                      |                                                               |                          |          |                    |
|-------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------|----------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------|----------|--------------------|
|                                                                                     | Voltage                     | Thermal camera                            |          | Connections                                                                          | Video Output                                                  | Models                   |          | Frequency          |
| <b>MVXT</b>                                                                         | <b>2</b> 12-24Vdc/<br>24Vac | <b>Q0</b> Thermal camera<br>9mm, 336x256  | <b>S</b> | <b>A</b> Cable gland with<br>gasket Ex d 3/4"<br>NPT and 4m (13ft)<br>armored cable  | <b>Z</b> IP H.264/AVC<br>control, Protocol<br>ONVIF Profile S | <b>00</b> T5 -60°C/+65°C | <b>A</b> | <b>H</b> 25-30Hz   |
|                                                                                     |                             | <b>M0</b> Thermal camera<br>13mm, 336x256 |          | <b>B</b> Cable gland with<br>gasket Ex d 3/4"<br>NPT and 10m (33ft)<br>armored cable | <b>0</b> Analog control                                       | <b>02</b> T6 -60°C/+55°C |          | <b>-</b> 7.5-8.3Hz |
|                                                                                     |                             | <b>Z0</b> Thermal camera<br>19mm, 336x256 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>L0</b> Thermal camera<br>25mm, 336x256 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>I0</b> Thermal camera<br>35mm, 336x256 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>J0</b> Thermal camera<br>50mm, 336x256 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>P0</b> Thermal camera<br>60mm, 336x256 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>H0</b> Thermal camera<br>9mm, 640x512  |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>G0</b> Thermal camera<br>13mm, 640x512 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>U0</b> Thermal camera<br>19mm, 640x512 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>E0</b> Thermal camera<br>25mm, 640x512 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>D0</b> Thermal camera<br>35mm, 640x512 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>W0</b> Thermal camera<br>50mm, 640x512 |          |                                                                                      |                                                               |                          |          |                    |
|                                                                                     |                             | <b>K0</b> Thermal camera 60mm,<br>640x512 |          |                                                                                      |                                                               |                          |          |                    |

| MAXIMUS MVXT- CONFIGURATION OPTIONS WITH CABLE TAIL |         |                    |                |                                 |   |             |                       |              |                                                      |        |                |   |           |           |
|-----------------------------------------------------|---------|--------------------|----------------|---------------------------------|---|-------------|-----------------------|--------------|------------------------------------------------------|--------|----------------|---|-----------|-----------|
|                                                     | Voltage |                    | Thermal camera |                                 |   | Connections |                       | Video Output |                                                      | Models |                |   | Frequency |           |
| MVXT                                                | 2       | 12-24Vdc/<br>24Vac | Q0             | Thermal camera<br>9mm, 336x256  | S | F           | 4m (13ft) cable tail  | Z            | IP H.264/AVC<br>control, Protocol<br>ONVIF Profile S | 01     | T5 -50°C/+65°C | A | H         | 25-30Hz   |
|                                                     |         |                    | M0             | Thermal camera<br>13mm, 336x256 |   | G           | 10m (33ft) cable tail | 0            | Analog control                                       | 03     | T6 -50°C/+55°C |   | -         | 7.5-8.3Hz |
|                                                     |         |                    | Z0             | Thermal camera<br>19mm, 336x256 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | L0             | Thermal camera<br>25mm, 336x256 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | I0             | Thermal camera<br>35mm, 336x256 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | J0             | Thermal camera<br>50mm, 336x256 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | P0             | Thermal camera<br>60mm, 336x256 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | H0             | Thermal camera<br>9mm, 640x512  |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | G0             | Thermal camera<br>13mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | U0             | Thermal camera<br>19mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | E0             | Thermal camera<br>25mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | D0             | Thermal camera<br>35mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | W0             | Thermal camera<br>50mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |
|                                                     |         |                    | K0             | Thermal camera<br>60mm, 640x512 |   |             |                       |              |                                                      |        |                |   |           |           |

## TECHNICAL DRAWINGS

The dimensions of the drawings are in millimetres.



MAXIMUS MVXT