**DIVISION 28 ELECTRONIC SAFETY AND SECURITY**

**SECTION 28 20 00 ELECTRONIC SURVEILLANCE**

**SECTION 28 23 00 VIDEO SURVEILLANCE**

**SECTION 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS**

**1 General**

**1.1 General requirements**

A The components and materials used for the construction of the products are standard type, they are manufactured and available also as spare parts, as long as the products remain on the market.

B All products and versions will be severely tested and validated by the internal laboratories of the manufacturer before being released on the market.

C All products released on the market by the manufacturer are designed for 24x7x365 constant use.

D For all products a Technical Support service is available, for free, via phone, e-mail and ticketing system.

**1.2 Quality**

A The manufacturer has to repair or replace without charge any products in which construction and/or material defects are found for the stated warranty period, starting from the delivery date of the material.

B The specified devices must be manufactured in Italy following the standards of EN ISO 9001: 2008 certification.

**1.3 Environmental sustainability**

A All products must comply with RoHS-6/6 according to the specifications 2011/65/EU, 2005/717/EC, 2006/122/EC and REACH according to the specifications EC 1907/2006.

**1.4 Certifications**

A All products must have the following certifications:

01 Electrical safety (CE): EN60065

02 Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3

03 IP protection degree: EN60529

a IP66/IP67

**2 Products**

**2.1 Technical data**

**A General**

01 Constructed from electropolished stainless steel (austenitic alloy stainless steel, corrosion and heat resistant according to the following standards):

a AISI 316L

b UNI 6900-71: X 2 Cr Ni Mo 17 12 2

c DIN 17006: X 2 Cr Ni Mo 17 13 2

d N° werkstoff 1.4404

e AFNOR: Z2 CND 17-12

f BSI: 316S11

02 The screws utilised are in austenitic alloy stainless steel, corrosion and heat resistant according to the following standards:

a ISO: 7380

b AISI: 316

c ISO quality: A4

d Resistance class ISO: from 50 to 70

**B Mechanical**

01 Cable glands: 3xPG13.5 (nickel-plated brass for external connections)

02 External body polishing

03 9mm (0.3in) thick front and back flange

04 O-ring gaskets

05 Dimensions (WxHxL): 182x164x460mm (7.2x6.5x18.1in)

06 Unit weight: 7.5kg (16.5lb)

**C Housing's window**

01 Germanium window

a Dimensions (Ø): 35mm

b Thick:1.5mm (0,06in)

c Dimensions (Ø): 55mm (2.1in)

d Thick:2mm (0.07in)

e External scratch-resistant treatment: Hard Carbon Coating (DLC)

f Internal antireflection treatment

g Spectral range: From 7.5μm a 14μm

h Medium transmittance (from 7.5μm a 11.5μm): 94%

i Medium transmittance (from 11.5μm a 14μm): 90%

**D Electrical**

01 Input voltage: 24Vac

02 Current consumption: 1.25A

03 Power consumption:

a 20W, with heating switched off

b 30W, with heating switched on

04 Heater: Ton 15°C±3°C (59°F ±5°F), Toff 22°C±3°C (77°F±5°F)

05 Dimensions of the power cables: 1.5mm² (16AWG)

**E Communications**

01 RS-422 Full Duplex for complete control of the camera

**F Environment**

01 Indoor/Outdoor

02 Operating temperature (with heater): from -40°C (-40°F) up to +60°C (140°F)

**2.2 Related products**

**A  NXPTH** Stainless steel P&T motor

**2.3 Brackets and adaptors**

**A  NXWBS1** AISI 316L stainless steel wall bracket with joint

**2.4 Spare parts**

**A  OTCMAN**  NTC and NTM housing maintenance kit

**B  ONTMFA** Front cover complete with germanium window

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| NTC - Configuration options |
|   | **Camera resolution** | **Focal length** | **25/30Hz** |
| **NTC2K1** | **3** 336X256 | **09** 9mm | **H** |
|  | **6** 640X512 | **13** 13mm (0.5in) |  |
|  |  | **19** 19mm |  |
|  |  | **25** 25mm |  |
|  |  | **35** 35mm |  |
|  |  | **50** 50mm |  |
|  |  | **60** 60mm |  |