**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 and ISO/IEC 80079-34:2011certification.

**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 ATEX (EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009):

a bEx II 2G Ex d IIC T6 Gb

b bEx II 2D Ex t IIIC T85°C Db IP66

c c 0044: notify number from competent body

02 IECEx (IEC 60079-0: 2007, IEC 60079-1: 2007, IEC 60079-31: 2008):

a Ex d IIC T6 Gb

b Ex t IIIC T85°C Db IP66

03 EAC EX:

a Ex d IIC T6 Gb

b Ex tb IIIC T85 Db IP66

04 KCs 16-KA4BO-0059 - 16-KA4BO-0056

a Ex d IIC T6

b Ex tb IIIC T85°C

**2 Products**

**2.1 Technical data**

**A General**

01 Non-corrosive die-cast aluminium (anticorodal)

02 Epoxy powder painted with orange peel effect, RAL7032

03 Environment temperature: -20°C / +50°C (-4°F / 122°F) or -40°C/+50°C (-40°C/+122°F) with reinforced heater

**B Mechanical**

01 Not to be installed upside down

02 Horizontal rotation: 0-360°

03 Horizontal speed (fixed): 6°/s

04 Pan Torque: 2.5kgm

05 Vertical plane movement: ±90°

06 Tilt speed (fixed): 2.4°/s

07 Vertical torque: 6kgm

08 Horizontal limit switch adjustable only for the Autopan function

09 1 cable gland Ex d 3/4” NPT IP66 ATEX for armoured cables in the base of the P&T according the housing marking

10 Pre-wired multipolar armored cable normally supplied with 7.5m (25ft) length: diameter 21.4mm (0.85in): 21 poles 0.5mm², 6 poles 1.5mm², 2 RG179, 75 Ohm

11 Minimum bending radius:10x cable diameter

12 External dimensions:

a EXPTC 427.5x571.4x560mm (16.8x322.5x22in)

b EXPTD 573.5x581x580mm (22.6x22.9x22.8in)

13 Internal dimensions:

a EXPTC Ø 180x380mm (7x14.9in)

b EXPTD Ø 180x460mm (7x18.1in)

14 Internal usable area:

a EXPTC 100x100x280mm (3.9x3.9x11in)

b EXPTD 100x100x280mm (3.9x3.9x11in)

15 Unit weight:

a EXPTC 56.5kg / 124.5lb

b EXPTD 62kg / 136.9lb

16 Window:

a EXPTC Ø 114mm (4.5in)

b EXPTD 70x56mm (2.7x2.2in)

17 Glass protection device:

a Ø 250x140mm (9.8x5.5in)

b Mylar film 80mm (3.1in) wide and 18m (59ft) length, 350 shifting steps, marks printed on the last 50cm (19in)

**C Electrical**

01 Power supply: IN 24Vac, 50/60Hz

02 Horizontal and vertical motor consumption: 50W max

03 Consumption with P&T static, heating switched off 0 W

04 Standard vertical and horizontal preset potentiometers

05 Reinforced heater, Ton 10°C±4°C (50°F±7°F), Toff 25°C±3°C (77°F±5°F):

a 3 resistors in the housing

b 2 resistors in the P&T (one for each motor)

c Consumption: 100W max

06 Glass protection device:

a 24Vac, Power consumption 2W max

07 Devices to install inside the housing:

a Camera equipped with lens with max total power of 20W

b Power supply max 24Vac (only for analog camera)

c Usable volume for camera/lens: 2800cm³

d Minimum distance between the walls of the housing and the camera/lens: 12mm

**D Environment**

01 Indoor/Outdoor

02 Operating temperature with heating: -20°C / +50°C (-4°F / 122°F)

03 Operating temperature with reinforced heater: -40°C / +50°C (-40°F/+122°F)

04 Always refer to the temperature in the marking.

05 Relative Humidity 10-95% (no condensation)

**2.2 Accessories**

**A  EXPTS000** Sunshield 650mm for EXPT series

**B  EXPTS001** Sunshield 760mm for EXPTD

**2.3 Related products**

**A  EXDTRX3** Data telemetry receiver 17 functions, 230Vac

**B  EXDTRX324** Data telemetry receiver 17 functions, 24Vac

**2.4 Brackets and adaptors**

**A  EXPTWB000** Bracket RAL7032 for EXPT series

**2.5 Spare parts**

**A  OEXMYLAR** Mylar film replacement kit, 18m (59ft), 350 steps

**B** OEXVETN Complete front flange with glass for EXHC and EXPTC series

**C  OEXDPVN** Complete front flange with glass protection device for EXHD and EXPTD series, RAL7032

**D** OSLIEX Internal slide complete with heater for EXHC and EXPTC series

**E  OSLIEXD** Internal slide complete with heater for EXHD and EXPTD series

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| Available models |
| **Model Number** | **Housing heater 24Vac** | **Pre-wired multipolar cable** | **Preset** | **Autopan** | **Glass protection device** | **Environment temperature** |
| EXPTC000 | p | p | p | – | – | -20°C / +50°C (-4°F / 122°F) |
| EXPTC033R | p | p | p | p | – | -40°C / +50°C (-40°F/+122°F) |
| EXPTD035R | p | p | p | p | p | -40°C / +50°C (-40°F/+122°F) |