Thermal Camera EC-800-TIC series

Stainless steel

Aluminum

Explosion Protection:

IECEx NEM 13.0027X
Nemko13ATEX1547X
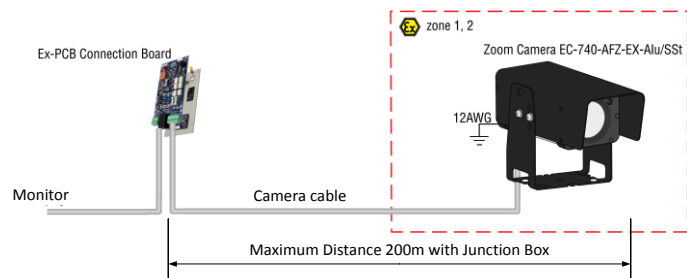RU C-DE. Г Б 04.B.00321

ATEX directive 94/9/EG
II 2 G Ex ib mb px IIC T4 Gb
II 2 D Ex mb tb IIIC T102°C Db
IECEx
Ex II 2 G Ex ib mb px IIC T4 Gb
Ex II 2 D Ex mb tb IIIC T102°C Db

Temperature Range:

T5;-40°C<+75°C,
T6;-40°C<+20°C.

Cold start: -10°C

IP Protection:

IP68 according IEC 60529

Thermal camera for hazardous areas
EC-800-TIC series

The thermal imaging camera allows surveillance in complete darkness, people can be registered in 450m distance.
Because of the high temperature range with -40°C to +75°C the camera could be used worldwide.
Thanks to the SNF technology this camera is, compared with Ex d enclosures, maintenance free.

Hardware Features

- The stainless steel enclosure is easy to clean and has excellent conditions in seawater areas.
- The coated aluminum enclosure provides the greatest safety with the lowest weight.
- Heated lenses offer protection against condensation and frost
- Zone 1, 2, 21, 22 (Gas / Dust)
- There is a 5m pigtail installed on the camera

Hardware Types

Models	Description
EC-800-TIC-ALU-232	Aluminium Enclosure with RS232 Interface
EC-800-TIC-SST-232	Stainless Steel Enclosure with RS232 Interface
EC-800-TIC- ALU-485	Aluminium Enclosure with RS485 Interface
EC-800-TIC-SST-485	Stainless Steel Enclosure with RS485 Interface

Operation principle

NOTE: The Ex certificate applies only when both, the Ex-PCB-Connection board and the Ex-camera are used together. For more installation and specification details see the Installation manual.

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Data sheet 2015 | R1-0 | DE

Technical Data

Sensor	Uncooled VOx Micobolometer
Resolution	FPA Format 324 x 256 (25-micron pixel size)
Framerate	7,5 Hz (NTSC), 8,3 Hz (PAL)
Sensitivity	<75 mk, <50 mk f/1.0
Scene range	-40°C to 160°C
Digital zoom	2x & 4x
Video	NTSC or PAL (Switchable with camera programing)
Lens	WFOV, 19mm (human registration 450m)
Color	4 Color palettes (LUTs)
Voltage	24V DC
Power consumption	Temperature <0°C (heater on): 5,6W Temperature >0°C (heater off):3,6W
Cable	5.0m (+/-0.04m), cable should be mounted fixed
Protection	1.4 Bar overpressure filled with dry nitrogen, long term stability 0,1%/year
Fuse	The camera must be protected with a 315mA-T fuse, with 1500A breaking capacity. Placed on the Ex PCB-Connection Board, see installation manual.
Bracket and mounting parts	Stainless steel 316, bracket and screws are parts of delivery
	EC-740-AFZ-EX-ALU	EC-740-AFZ-EX-SST
Housing	Sun cover and housing: aluminum (AIMgSi1)	Sun cover and housing: stainless steel 316
Weight	3 kg including 5m cable	6 kg including 5m cable
Communication	EC-800-TIC-xxx-232-P	EC-800-TIC-xxx-485-P
	RS-232, 9600 Baud, Pelco-D or Visca protocoll	RS-485, 9600 Baud, Pelco-D or Visca protocoll
Optional accessories	Ex e terminal box multicable non-armoured, multicable armoured, video encoder, Oil damp bracket for crane application, 7" or 15" Ex d monitor	

Units in mm

We reserve the right to make any changes at any time according to technological progress or further development.

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