

EC-840S-TIC-19A-642-F55 Art. No. 252710



- High-resolution analogue thermal imaging camera
- Certified for hazardous Zone 1, 2, 21, 22 acc. to ATEX, IECEx, NEC, CEC
- Day / night - functionality
- Enclosure made from electropolished stainless steel (316L), ideal for clean rooms as well as the oil and gas industries
- Delivery with armoured cable or cable set (NEC / CEC)

MY R. STAHL EC840STICAA



R. STAHL's EC-840S-TIC-19A analogue thermal imaging camera is one of the most modern explosion-protected cameras currently on the market. Its integrated thermography function ensures clear and safe recognition of changes in temperature by colour coding specific temperature zones - according to your settings, precisely tailored to the process under surveillance. The analogue camera functions are controlled via RS-485 with Pelco D or Panasonic protocol. All models are available with high or medium resolution. These surveillance cameras are certified acc. to ATEX, IECEx, NEC and CEC for hazardous zones 1, 2, 21 and 22 and are therefore suitable for installation in many regions.

Technical Data

Explosion Protection

| | |
|---------------------------------|---|
| Application range (zones) | 1 2 21 22 |
| Certifications | ATEX, IECEx, NEC, CEC |
| IECEx gas certificate | ITS 16.0026X |
| IECEx gas explosion protection | Ex d IIC T5 Gb |
| IECEx dust certificate | ITS 16.0026X |
| IECEx dust explosion protection | Ex tb IIIC 100 °C Db IP66, 68, |
| ATEX gas certificate | 16 ATEX 18446X |
| ATEX gas explosion protection | ⊕ II 2 G Ex d IIC T5 Gb |
| ATEX dust certificate | 16 ATEX 18446X |
| ATEX dust explosion protection | ⊕ II 2 D Ex tb IIIC 100 °C Db IP66, 68, |
| Lloyd's Register categories | ENV1, ENV2, ENV3, ENV5 |
| Ship certificates | Lloyd's |

Electrical Data

| | |
|----------------------------------|--------------------|
| Rated operational voltage AC | 24 V |
| Rated operational voltage DC | 12 ... 24 V |
| Rated operational current AC | 2.2 A |
| Rated operational current for DC | 2.2 – 3.5 A |
| Interfaces | RS-485 half duplex |
| I/O alarm | 1x alarm input |
| I/O relay | 1x relay output |

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Camera Data

| | |
|--------------------------------------|------------------------------|
| Sensor | Uncooled microbolometer |
| TV system | PAL or NTSC |
| Lens | f = 19 mm, fixed , F 1.25 |
| Viewing angle | 32° fixed |
| Zoom | 2x, 4x, 8x digital |
| Resolution | < 50 mK to f/1.0 |
| Total pixels | 640 (H) x 512 (V) |
| Pixel | 17 µm pixel size |
| Minimum illumination color (ICR-OFF) | 0 lx |
| Human (Recognise/Find/Identify) | 570 m / 144 m / 72 m |
| Auto (Recognize/Find/Identify) | 1550 m / 400 m / 200 m |
| Frame rate (fps) | 8.3 PAL, 7.5 NTSC |
| Electronic shutter | < 1s for sensor compensation |
| Colour display | Pallet LUT |
| WDR (dynamic range) | 0 dB |

Software

| | |
|-------------------------------|---------------------------|
| Serial Communication Protocol | Panasonic, Pelco D, Macro |
|-------------------------------|---------------------------|

Ambient Conditions


| | |
|---------------------------------|-------------------|
| Ambient temperature | -50 °C ... +65 °C |
| Cold start range (with heating) | -40 °C |

Mechanical Data

| | |
|------------------------------|---|
| Version | Fixed viewing angle |
| Degree of protection (IP) | IP66, 68, |
| Note on degree of protection | IP69 only enclosure |
| Enclosure material | Stainless steel 1.4404 |
| Surface treatment | Electropolished and Silicon micro-blasted |
| Cable length | 4 m |
| Opening for cable gland | 1 x 3/4" NPT |
| Integrated wiper | No |
| Feature | Germanium window with DLC |
| Package weight | 12.5 kg |
| Package dimensions | 600 x 300 x 600 mm |
| Weight | 8 kg |
| Weight | 17.64 lb |

Accessories

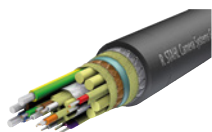
Ball joint

| | | Art. No. |
|---|--|----------|
|  | MPT-Head-EC-840S/EC-940S 316L stainless steel, electropolished Capacity: max. 40 kg Diameter: 101.6 mm | 251388 |

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Camera multi-cable armoured

Art. No.



VB-CAM-MULTI-Analog-ARM

1 x coaxial cable
 3 x power supply 2.5 mm²
 7 x data cable 0.34 mm²
 -60 °C ... +80 °C
 16.5 ±0.3 mm outer diameter
 IEC 60332-1 flame-resistant
 IEC 60754-2 halogen-free
 DIN 60811-404 oil-resistant
 NEK 606 mud-resistant

252572

Corner adapter module

Art. No.



CMA-EC-840S /EC-940S

Suitable for EC-x40S series
 Material: 316L stainless steel, electropolished
 Capacity: max. 50 kg
 Only together with wall bracket EC-x40S type 251387

251381

Ex e Terminal box

Art. No.



JCT-8146-Ethernet+Analog 5xcable glands

Terminal box, polyester resin
 Version for ethernet Tx or analog cameras
 Dimensions without cable glands (HxWxD): 340.5 mm x 340.5 mm x 91 mm
 Ingress protection: IP66
 equipped with:
 5 x cable glands:
 2 x CMP-25SC2KVAR KLE MsNi M25x1.5
 1 x 8161/7-M25-1707 with red stopping plug
 2 x 8161/7-M20-1304 with red stopping plug
 usable for:
 EC-750, EC-910-AFZ, EC-940S-AFZ (ATEX, IECEx)
 EC-840S-TIC (ATEX, IECEx), EC-94x-PTZ, Water tank

265668

Parapet mounting bracket

Art. No.



PM-EC-840S /EC-940S

Suitable for EC-x40S series
 Material: 316L stainless steel, electropolished
 Capacity: max. 70 kg
 Height: 124 mm
 Only together with ball joint adapter EC-x40S type 251388

251386

Pole adapter module

Art. No.



PMA-EC-840S /EC-940S

Suitable for EC-x40S
 For pole diameter 110 ... 150 mm
 Material: 316L stainless steel, electropolished
 Capacity: max. 50 kg
 Weight: 3.3 kg
 Only together with wall bracket EC-x40S type 251387

251380

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Wall bracket

Art. No.



WB-EC-840S/EC-940S

Suitable for EC-x40S series
 Material: 316L stainless steel, electropolished
 Capacity: max. 40 kg
 Length: 420 mm

251387

Ex e Terminal box

Art. No.



JCT-Terminal-Box

Customized junction box
 Available upon request

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.