

EC-840S-TIC-19A-642-456 Art. No. 251329



- High-resolution analogue thermal imaging camera
- Certified for hazardous zones 1, 2, 21, 22 acc. to ATEX, IECEx
- 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- and IECEx 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
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

#### Camera Data

Sensor	Uncooled microbolometer
TV system	PAL or NTSC

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### Camera Data

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
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### Ambient Conditions


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

### Mechanical Data

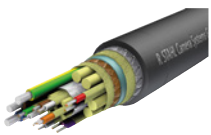




Version	Fixed viewing angle
Degree of protection (IP)	IP66, 68,
Note on degree of protection	IP69 only enclosure
Enclosure material	Stainless steel 1.4404
Surface treatment	Electropolished and Silicon micro-blasted
Cable length	4 m
Opening for cable gland	1 3/4" NPT with cable gland
Integrated wiper	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

	<b>MPT-Head-EC-840S/EC-940S</b> 316L stainless steel, electropolished Capacity: max. 40 kg Diameter: 101.6 mm	<b>Art. No.</b> 251388
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Camera multi-cable armoured		Art. No.
	<p><b>VB-CAM-MULTI-Analog-ARM</b>                      1 x coaxial cable                      3 x power supply 2.5 mm<sup>2</sup>                      7 x data cable 0.34 mm<sup>2</sup>                      -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</p>	252572
Corner adapter module		Art. No.
	<p><b>CMA-EC-840S /EC-940S</b>                      Suitable for EC-x40S series                      Material: 316L stainless steel, electropolished                      Capacity: max. 50 kg                      Only together with wall bracket EC-x40S type 251387</p>	251381
Ex e Terminal box		Art. No.
	<p><b>JCT-8146-Ethernet+Analog 5xcable glands</b>                      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</p>	265668
Parapet mounting bracket		Art. No.
	<p><b>PM-EC-840S /EC-940S</b>                      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</p>	251386
Pole adapter module		Art. No.
	<p><b>PMA-EC-840S /EC-940S</b>                      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</p>	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

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.