

EC-840S-TIC-19A-332-F55 Art. No. 252709



- 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	17° fixed
Zoom	2x, 4x digital
Resolution	< 50 mK to f/1.0
Total pixels	336 (H) x 256 (V)
Pixel	17 µm pixel size
Minimum illumination color (ICR-OFF)	0 lx
Human (Recognise/Find/Identify)	640 m / 180 m / 80 m
Auto (Recognize/Find/Identify)	1950 m / 500 m / 250 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 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

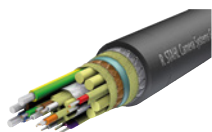
### Ball joint

		Art. No.
	<b>MPT-Head-EC-840S/EC-940S</b> 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 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

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

EC-840S-TIC-19A-332-F55 Art. No. 252709

### 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.