

EC-840S-TIC-19A-332-456 Art. No. 251327



- 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

EC-840S-TIC-19A-332-456 Art. No. 251327

**Camera Data**

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
-------------------------------	---------------------------


**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**

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

EC-840S-TIC-19A-332-456 Art. No. 251327

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-332-456 Art. No. 251327

---

### 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.