CROUSE-HINDS

EX286 HD IP PTZ JB

Complete camera station



Picture shows EX286W PTZ JB with wiper and sunshield

Overview

Eaton's EX series are highly advanced process and surveillance camera stations that are certified to meet worldwide explosion proof environments.

Features

- Full HD resolution
- DNV type approval
- EX certified for Zone 1 (gas group IIC) and Zone 2 (dust)
- Digital WDR (wide dynamic range)
- IR sensitive
- Integrated Ex e junction box
- Flexible powering (30 VAC, 24 VDC)
- Automatic day/night function

- Audio (optional)
- Sunshield
- Auto focus with manual override
- Auto iris with manual override
- Built-in heating
- Thermoelectric heating
- Scratch proof, tempered glas
- 20 x zoom
- Designed to accept future software upgrades remotely

The EX286 HD IP PTZ JB series is designed for direct termination of fiber optic, IP and power supply. Pan/tilt, camera and junction box combined in one compact design makes it an extremely versatile camera station choice.

Designed specifically for operation in the most demanding conditions, the EX286 HD IP PTZ JB is built from high quality electro polished 316L stainless steel and has scratch resistant tempered window glass and a built-in heater as standard.

This camera station will quickly focus on a predefined object or area by utilizing the preset position feature. 100 positions are at your fingertips and will allow the operator to alternate between areas, processes or objects rapidly.

Additionally the EX286 HD IP PTZ JB carries global Ex and Marine certifications & approvals and when combined with its IP66 ingress protection it makes it exceptionally resilient to extreme environmental conditions where vibration, humidity, extreme temperature variations and corrosion are a normal occurrence. Low power consumption combined with a reflective surface has resulted in the lowest surface temperature classification possible, i.e. T6.

Installation is simple and a single cable is sufficient for the transmission of data and power, routed directly to the control cabinet (standard Ethernet cable).

The EX286W HD IP PTZ JB can work with illumination as low as 0.01 lux, has 1080p resolution and uses the HERNIS™ Flex IP control protocol. Additionally the future proof design can facilitate future software upgrades and diagnostics remotely.











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General arrangement drawing	(all	dimensions	in	mm)
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Certifications		General arrangement drawing (all dimensions in mm)			
Camera					
Ex code	EX II2 GD - Ex d IIC T6 Gb (Gas) & Ex tb IIIC T85°C Db (Dust)				
ATEX	Presafe 15 ATEX 7413				
IECEx	IECEx PRE 15.0069				
TR CU	TR CU C-NO.GB05.B00872				
Inmetro	DNV 13.0001				
Junction box					
Ex code	EX II 2 (1) GD				
	Ex d [op is Ga] IIC T6 Gb (Gas) or Ex d IIC T6 Gb (Gas)				
ATEV	Ex tb IIIC T85°C Db (Dust) Ex tb IIIC T85°C Db (Dust)				
ATEX IECEx	Presafe 15 ATEX 6485X IECEx PRE 15.0025X				
TR CU	TR CU C-NO.GB05.B00872				
INMETRO	DNV 13.0004X	AIIII I			
	DINV 13.0004A	HIIII			
Specifications		HIII			
Physical dimensions camera		HIIII			
Weight	25.3 kg	اا ا			
Dimensions (W x H x D)	331 x 370 x 219 mm				
Mounting	Mounting Upright or hanging - bolts: M12, 4 pcs. (not included) Field cable installation through ATEX/IECEx approved glands (compound gland) M20 x 1.5 for 8.5 - 21.0 mm cables (not included)				
Material & finish	Stainless steel AISI 316L, electro polished				
Operating conditions came	та				
IP protection rate	IP66 (NEMA 4x)				
Humidity	Up to 100%				
Operating temperature range	-20°C to +60°C (heating element inside housing)				
Enclosure	Salt mist tested				
EMC	All locations including open deck				
Operating conditions junct					
IP protection rate	IP66 / IP67 (NEMA 4x/6 and 6P)				
Humidity	Up to 100%				
Operating temperature range	-50°C to +60°C (heating element inside housing)				
Camera					
Image sensor	1/2.8" progressive scan CMOS				
Sync system	Internal				
Frame rate	50 HZ: 25 fps (1920 \times 1080) , 25 fps (1280 \times 720) 60 HZ: 30 fps (1920 \times 1080), 30 fps (1280 \times 720)				
Min. illumination	Color: 0.05Lux @(F1.6, AGC ON) B/W: 0.01Lux @(F1.6, AGC ON)				
S/N ratio / WDR	> 50 dB / WDR				
Lens	20x optical zoom	30 x optical zoom			
Focal length	4.7 - 94mm	4.5 - 135mm			
Aperture range	F1.6 - F3.5	F1.6 - F4.4			
Angle of view	61.4 - 2.9°(wide-tele)	65.1 - 2.35°(wide-tele)			
Min. working distance	10mm - 1500mm (wide-tele)	10mm - 1500mm (wide-tele)			
Zoom speed	Approx. 2.7s (optical, wide-tele)	otical, wide-tele) Approx. 3s (optical, wide-tele)			
Day & night	IR cut filter auto switch IR cut filter auto switch				
Specifications IP					
Protocol	IPv4/IPv6, TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP optional)				
Compression	Main stream: H.264 Sub stream: H.264, MJPEG				
H.264 compression profile	Main profile, high profile				
Dual-streaming	Supported				
Video bit rate	256 Kbps - 13 Mbps				
Specification fiber optics (F	-0)				
Mode	Single mode (SM), bi-directional transmission				
Wave length	1310 / 1550 nm				

19 dB

Up to 20 km

1 x LC connector on SFP module FO pigtail with LC fibre connector (not included) in fibre splice box (included)

Optical budget Operating distance

Connector

Specifications			
Attributes			
Power supply for config. 311/466	30 VAC, +10% -30%, 50/60 Hz		
Power supply for config. 314/466	115/230 VAC, +/-10%, 50/60 Hz		
Power supply for config. 315/466	24 VDC +/-10%		
Power consumption/heat dissipations	30VAC: Min 19W Max 45W (heating on) 24VDC: Min 19W Max 34W (heating on) 115/230VAC: Min 21W Max 51W (heating on)		
Rotating angle/variable speed	Pan: 0·360°/Speed 1.5°/sec 45°/sec Tilt: ±90° / Speed 1.5°/sec 26°/sec		
Preset/home positions	tions 100 preset + 4 home positions, accuracy ≤ 0.2°		
Accessories			
Included	Sunshield		
Optional	Tropical sunshield, safety wire, wall or weld bracket, HERNIS™ multi-cable, cable compound glands		

Ordering requirements

Order info HERNIS" part no: 097183-31x/4x6 311/466 IP-FO 30VAC 20xZ 1080p 311/486 IP-FO 30VAC 30xZ 1080p 314/466 IP-FO 115/230VAC 20xZ 1080p 314/486 IP-FO 115/230VAC 30xZ 1080p 315/466 IP-FO 24VDC 20xZ 1080p 315/486 IP-FO 24VDC 30xZ 1080p	The following code is designed to help in selection of the correct unit.						
311/466 IP-FO 30VAC 20xZ 1080p 311/486 IP-FO 30VAC 30xZ 1080p 314/466 IP-FO 115/230VAC 20xZ 1080p 314/486 IP-FO 115/230VAC 30xZ 1080p 315/466 IP-FO 24VDC 20xZ 1080p	Order info	Order info					
31½486 IP-FO 30VAC 30xZ 1080p 314/466 IP-FO 115/230VAC 20xZ 1080p 314/486 IP-FO 115/230VAC 30xZ 1080p 315/466 IP-FO 24VDC 20xZ 1080p	HERNIS™ part no:	097183-31 x /4 x 6					
314/466 IP-FO 115/230VAC 20xZ 1080p 314/486 IP-FO 115/230VAC 30xZ 1080p 315/466 IP-FO 24VDC 20xZ 1080p	31 <u>1</u> /4 <u>6</u> 6	IP-FO 30VAC	20xZ 1080p				
314/486 IP-FO 115/230VAC 30xZ 1080p 315/466 IP-FO 24VDC 20xZ 1080p	31 <u>1</u> /4 <u>8</u> 6	IP-FO 30VAC	30xZ 1080p				
315/466 IP-FO 24VDC 20xZ 1080p	31 <u>4</u> /4 <u>6</u> 6	IP-FO 115/230VAC	20xZ 1080p				
35 25	31 <u>4</u> /4 <u>8</u> 6	IP-FO 115/230VAC	30xZ 1080p				
315/486	31 <u>5</u> /4 <u>6</u> 6	IP-FO 24VDC	20xZ 1080p				
	31 <u>5</u> /4 <u>8</u> 6	IP-FO 24VDC	30xZ 1080p				