CROUSE-HINDS SERIES

XF60 HD IP series

Explosion proof, fixed camera station



Overview

The Oxalis XF60 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to conformity to certification, physical fit and acceptance.

Features

- ATEX and IECEx certified
- Electro-polished 316L stainless steel on all welded assemblies
- Wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz or 24VDC)
- Operating temperature from -60°C to +70°C*
- IP66/67 (IP68)

*Model dependent





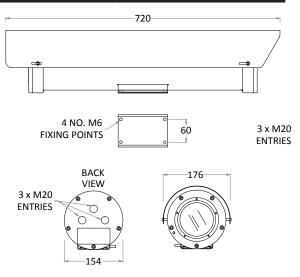
Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0022/I June 2024

Eaton is a registered trademark.

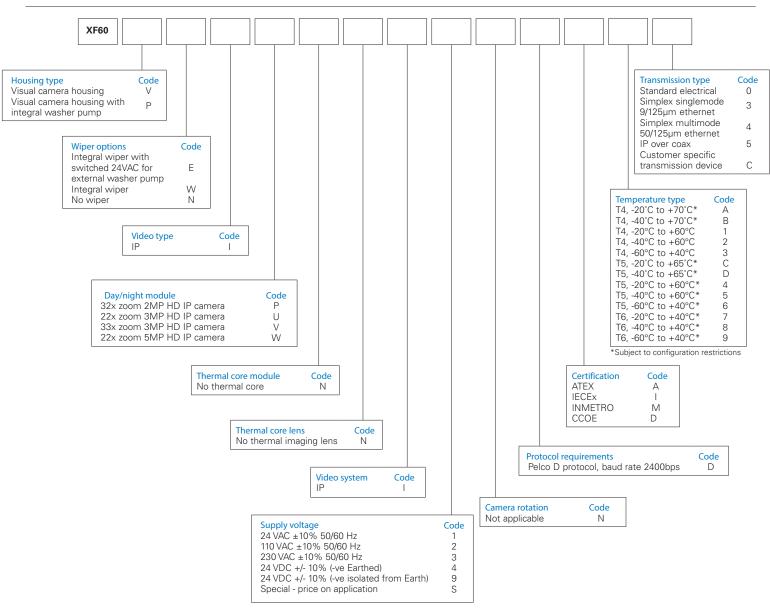
Certi	fications		
ATEX	II 2 G Ex db (op pr) IICT4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	CCOE	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P529141

General arrangement drawing (all dimensions in mm)



eatures		Electrical	
un shield	Standard stainless steel 316L mirror finish	Supply voltage options	24 VAC, 110 or 230 VAC, 50/60Hz
ntegral wiper	Optional (Silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold)	Power consumption	37W Maximum (65W with low temperature operation)
ntegral demister	Standard	Electrical connections	Terminal block for power, data and video specific to
ntegral washer pump	Optional	_	camera configuration
Vasher systems	Compatible with Oxalis XW or XWP washer tanks (see separate datasheets)	Cable entry	Three M20 entries located in housing rear flange or one M20 side entry with integral pump
elemetry receiver	Integral - Pelco D, P	Mechanical	
direct fibre out options	Optional media converter, simplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3	Body material	Electro-polished 316L stainless steel on all welded assemblies
over coax	Optional integrated IP Ethernet-over-coax converter (must be used with compatible Rx equipment)	Fixings material	A4 stainless steel
		Camera station window	Toughened glass
ype approval	DNVGL-CG-0339, 2016 (copper transmission only)	Mounting options	Pole or wall (see separate datasheets)
ngress Protection Rating	IP66/67, IP68 (1.5m for 24 hours)	Operating temperature	From -60°C to +70°C (model dependent)
		Weight (Kg)	Up to 21 Kg depending on configuration

Camera options			
32x XNZ-6320 HP IP camera		22x zoom 3MP HD IP camera	
Image sensor	Progressive scan CMOS 1/2.8"	Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x240	Resolution	2304 x 1296 @ 30fps
Lens	32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour: 0.05Lux (1/30sec, F1.6, 50IRE), B/W: 0.005Lux (1/30sec, F1.6, 50IRE)	Min. illumination	Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR	Streaming	Triple streams in H.264, H.265
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	Standards protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.
33x zoom 3MP HD IP car	nera	22x zoom 5MP HD IP camera	
Image Sensor	Progressive scan CMOS 1/2.8"	Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2304 x 1296 @ 60fps	Resolution	2880 x 1620 @ 30fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46 - 3.09°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)	Min. Illumination	Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265	Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.	Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.



CROUSE-HINDS

XF60 thermal image analogue series

Explosion proof, fixed camera station



Overview

The Oxalis XF60 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to conformity to certification, physical fit and acceptance.

This datasheet covers the thermal imaging configurations.

Features

- · ATEX, IECEx, Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on all welded assemblies
- · Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature from -60°C to +70°C
- IP66/67 (IP68)
 - *Model dependent













Sutton in Ashfield United Kingdom

NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com

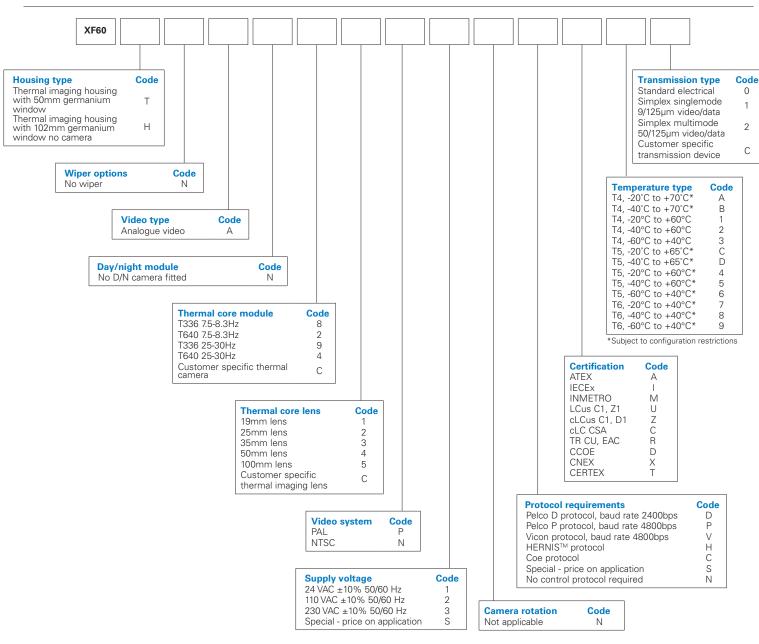
© 2016 Eaton All Rights Reserved Printed in UK Publication No.DSOX0023/F October 2017

Eaton is a registered trademark

Certific	cations		
ATEX	II 2 G Ex db (op pr) IICT4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	cLC CSA	Ex d IICT4 (T5 On Request) LC1311396 -60°C ≤Ta ≤ +60°C. CAN CSA-C22.2 No.60079-0:2011 & 60079-1-2012 Certificate: 11396-1S-CSA
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	TR CU, EAC	1 Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: TCRUCGB.TE04.B00587
INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: UL-BR 17.0063X	CCOE	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P400546/1
LCus C1/Z1	Class 1 Zone 1 A Ex d IIC T4 (T5 On Request) LC13A11396 Gb -60°C ≤Ta ≤ +60°C. UL 60079-0:2009 & 60079-1:2010 Certificate: 11396-1S-UL	CNEX	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: 17.1235X
cLCus C1/D1	Class I, Division 1, Groups B, C, D, -60°C≤Ta≤60°C T4 Class II, Division 1, Groups E, F, G IP67. CSA-C22.2 No:30-M1986 No:25-1966(R2009) CSA- C22.2 No:60065-03(R2012) & UL1203,UL60065(ED.7) Certificate: 11671-1S (Gas) / 11677-1S (Dust)	CERTEX	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: S-XLP/170244X

General arrangement drawing (all dimensions in mm) 720 4 NO. M6 FIXING POINTS 3 x M20 ENTRIES BACK VIEW 3 x M20 ENTRIES

Certificate: 11671-15 ((Gas) / T16 / /-1S (Dust) Certificate: S-XLP/17.0244X
Specifications	
Certification part number	Housing options 2410-TI, 2410-TI-50
Features	
Sun shield	Standard stainless steel 316L mirror finish
Integral demister	Standard
Telemetry receiver	Integral - Pelco D, P standard protocols (others to specification)
Analogue direct fibre out	Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station
Ingress protection rating	IP66/67, IP68 (1.5m for 24 hours)
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
Electrical	
Supply voltage options	24 VAC, 110 or 230 VAC, 50/60Hz
Power consumption	37W maximum (65W with low temperature operation)
Electrical connections	Terminal block for power, data and video specific to camera configuration
Cable entry	Three M20 entries located in housing rear flange
Mechanical	
Body material	Electro-polished 316L stainless steel on all welded assemblies
Fixings material	A4 stainless steel
Camera station window	Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill
Mounting options	Pole or wall (see separate datasheets)
Operating temperature	From -60°C to +70°C (model dependent)
Weight (Kg)	Up to 18 Kg depending on configuration
Thermal core module optio	ons .
T336 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement
T640 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement
T336 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing
T640 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing
Thermal core lens options	
19mm lens	FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m
25mm lens	FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m
35mm lens	FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m
50mm lens	FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m
100mm lens	FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only



CROUSE-HINDS SERIES

XF40 day/night HD IP series

Explosion proof, fixed camera station



Overview

The Oxalis XF40 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

Features

- ATEX and IECEx certified
- Electro-polished 316L stainless steel on all welded assemblies
- Camera station window in toughened glass
- Pole or wall mounting options (see separate datasheets)
- Supply voltage (24 VAC or 24VDC)
- Operating temperature -60°C to +70°C*
- IP66/67 (IP68)
 - *Model dependent





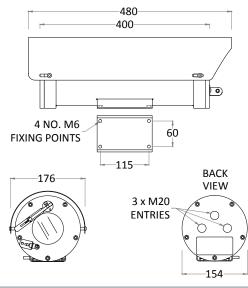
Eaton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0029/I June 2024

Eaton is a registered trademark.

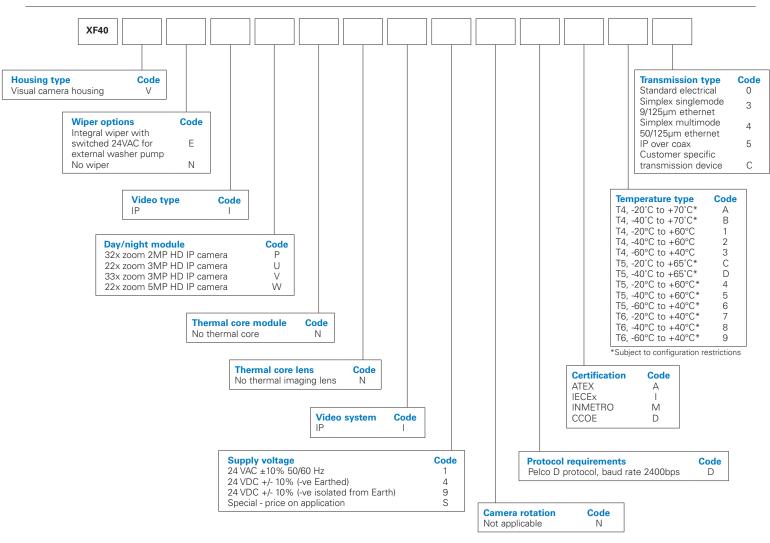
Certif	ications		
ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	CCOE	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P529141

General arrangement drawing (all dimensions in mm)



			154
Specifications			
Features		Electrical	
Sun shield	Standard stainless steel 316L mirror finish	Supply voltage options	24 VAC
Integral wiper	Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold)	Power consumption	37W maximum (65W with low temperature operation)
Integral demister	Standard	Electrical connections	Terminal block for power, data and video specific to camera configuration
Washer systems	Compatible with Oxalis XW or XWP washer tanks (see datasheets)	Cable entry	Three M20 entries located in housing rear flange
Telemetry receiver	Integral - Pelco D, P	Mechanical	
IP direct fibre out options	Optional media converter, simplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3	Body material	Electro-polished 316L stainless steel on all welded assemblies
IP over coax	Optional integrated IP Ethernet-over-coax converter (must be used with compatible Rx equipment)	Fixings material	A4 stainless steel
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)	Camera station window	Toughened glass
Ingress protection rating	IP66/67, IP68 (1.5m for 24 hours)	Mounting options	Pole or wall (see separate datasheets)
Weight (Kg)	Up to 15Kg depending on configuration	Operating temperature	From -60°C to +70°C (model dependent)
Camera options			
32x XNZ-6320 HP IP camer	a	22x zoom 3MP HD IP came	ета
Image sensor	Progressive scan CMOS 1/2.8"	Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x240	Resolution	2304 x 1296 @ 30fps
Lens	32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour: 0.05Lux (1/30sec, F1.6, 50IRE), B/W: 0.005Lux (1/30sec, F1.6, 50IRE)	Min. illumination	Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR	Streaming	Triple streams in H.264, H.265
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/	Standards protocols	ONVIF Profiles G, S & T, L2TF, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

	Delog		
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	Standards protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.
33x zoom 3MP HD IP cam	nera	22x zoom 5MP HD IP car	тета
Image Sensor	Progressive scan CMOS 1/2.8"	Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2304 x 1296 @ 60fps	Resolution	2880 x 1620 @ 30fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)	Min. Illumination	Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265	Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.	Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.



CROUSE-HINDS

XF40 thermal image analogue series

Explosion proof, fixed camera station



Overview

The Oxalis XF40 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

This datasheet covers the thermal imaging configurations

Features

- · ATEX, IECEx, Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on all welded assemblies
- · Standard stainless steel 316L mirror
- · Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature -60°C to +70°C*
- IP66/67 (IP68)













T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com

© 2016 Eaton All Rights Reserved Printed in UK Publication No.DSOX0030/F October 2017

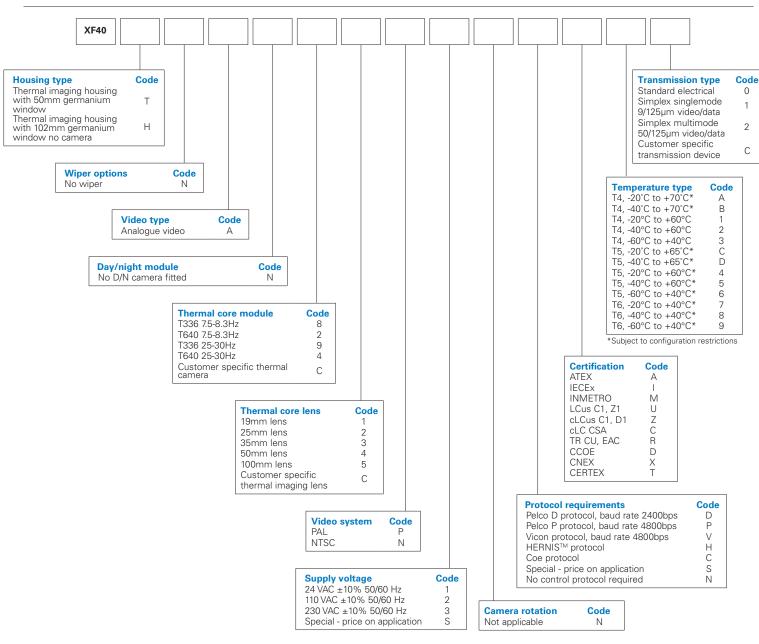
Eaton is a registered trademark



Certific	cations		
ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	cLC CSA	Ex d IICT4 (T5 On Request) LC1311396 -60°C ≤Ta ≤ +60°C. CAN CSA-C22.2 No.60079-0:2011 & 60079-1-2012 Certificate: 11396-1S-CSA
IECEx	Ex db (op pr) IIC T4 Gb-60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5-60°C to +65°C, T6-60°C to +40°C On request: T135-60°C to +65°C Certificate: IECEx ITS 15.0068X	TR CU, EAC	1 Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: TCRUCGB.IF604.B00587
INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X	CCOE	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P400546/1
LCus C1/Z1	Class 1 Zone 1 A Ex d IICT4 (T5 On Request) LC13A11396 Gb -60°C ≤Ta ≤ +60°C. UL 60079-0:2009 & 60079-1:2010 Certificate: 11396-1S-UL	CNEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: 17.1235X
cLCus C1/D1	Class I, Division 1, Groups B, C, D, -60°C≤Ta≤60°C T4 Class II, Division 1, Groups E, F, G IP67. CSA-C22.2 No:30-M1986 No:25-1966(R2009) CSA- C22.2 No:60065-03(R2012) & UL1203,UL60065(ED.7)	CERTEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C

4 NO. M6 FIXING POINTS 3 x M20 ENTRIES BACK VIEW

Features Features So shakeld Standard stainless steel 316L mirror finish Standard Patentary receiver Integral demister Standard Integral Pelico D, P standard protocols lothers to specification) Analogue direct fibre out Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station Integral Pelico D, P standard protocols lothers to specification) Prove approval Integral - Pelico D, P standard protocols lothers to specification) Prove papproval DNVGLCG-0339, 2016 (copper transmission only) Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz Power consumption 37W maximum (65W with low temperature operation) Electrical connections 1 Three M20 entries located in housing rear flange Mechanical Bedry Maximum (65W with low temperature operation) Electrical supply voltage options 24 VAC (110 or 230 VAC, 50/60Hz Bady material Electro-polished 316L stainless steel on all welded assemblies Electro-polished 316L stainless steel on all welded assemblies Camera station window Internal AR and external carbon coated germanium (50 or 102mm (6)) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Thermal core module options Thermal core internal AR and external imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 25Hz NTSC/25Hz PAL exportable frame rate, digital detail enhancement Honcoled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 360 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing 1364 of 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 3640 x 251 resolution (2012) & UL1203,UL60065(ED.7) (Gas) / 11677-1S (Dust)	On request: T135 -60°C to +65°C Certificate: S-XLP/17.0244X	154
Features Sun shield Standard stainless steel 316L mirror finish mitegral demister Standard Standard stainless steel 316L mirror finish mitegral demister Standard Standard Standard protocols (others to specification) Analogue direct fibre out options insignemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station ingress protection rating press protection arting press	Specifications			
Sun shield Standard stainless steel 316L mirror finish Integral demister Standard Integral - Pelco D, P standard protocols (others to specification) Analogue direct fibre out Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station ingress protection rating DNVGL-CG-0339, 2016 (copper transmission only) Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60 Hz Power consumption 37W maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Belectrical connections	Certification part number	Housing options 1410-TI, 1410	P-TI-50	
Integral demister Standard Integral - Pelco D, P standard protocols (others to specification) Analogue direct fibre out Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station Ingress protection rating Ingress protection rating Prope approval DNVGL-CG-0339, 2016 (copper transmission only) Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz Power consumption 37W maximum (65V with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Bedy material Electro-polished 316L stainless steel on all welded assemblies Fittings material Ad stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature Neight (Kg) Up to 15 Kg depending on configuration Thermal core module options Table 5.58.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 338 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 338 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 338 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Thermal core lens options For V 17* x 13* (336 x 256) / FoV 32* x 26* (640 x 512) Detection of object 4m x 1.5m: Typical 3900m Fo	Features			
Telemetry receiver Integral - Pelco D, P standard protocols (others to specification) Analogue direct fibre out Optional singlemode 9/128µm or multimode 50/128µm video and data fibre optic transmission, mounted inside the camera station ingress protection rating P66/67, IP68 (1.5m for 24 hours) Type approval DNVGL-CG-0339, 2016 (copper transmission only) Electrical	Sun shield	Standard stainless steel 316	SL mirror finish	
Analogue direct fibre out Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station IP66/67, IP68 (1.5m for 24 hours) DNVGLCG-0339, 2016 (copper transmission only) Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz 37V maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Doperating temperature Meight (Kg) Up to 15 Kg depending on configuration Thermal core module options Taga 25-3.8Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 526 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Taga 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/28Hz PAL frame rate, digital detail enhancement Safe 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/28Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Fov 17° x 13° (336 x 256) / Fov 12° x 2° (6	Integral demister	Standard		
Ingress protection rating P66/67, IP68 (1.5m for 24 hours) IVppe approval DNVGLCG-0339, 2016 (copper transmission only) Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz Supply voltage options 37W maximum (65W with low temperature operation) Electrical comections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or well (see separate datasheets) Deparating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Table 75-8-3Hz Unccoled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 75-8-3Hz Unccoled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 75-8-3Hz Unccoled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 75-8-3Hz Unccoled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options FoV 17° x 13° (3	Telemetry receiver	Integral - Pelco D, P standar	d protocols (others to specification)	
DNVGLCG-0339, 2016 (copper transmission only)	Analogue direct fibre out	Optional singlemode 9/125µ	ım or multimode 50/125µm video and data fibre optic transmission, mounted inside the car	nera station
Electrical Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz Power consumption 37W maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Eable entry Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fishings material A4 stainless steel Internal AR and external carbon coated germanium (50 or 102mm (9) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Taga 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement GAO 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Exportable of the protocol of t	Ingress protection rating	IP66/67, IP68 (1.5m for 24 h	ours)	
Supply voltage options 24 VAC, 110 or 230 VAC, 50/60Hz Power consumption 37W maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm (9) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60° C to +70° C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Ta36 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Ta36 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement G40 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement G40 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement. G40 x 5-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing G40 x 5-12 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing G40 x 5-12 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export res	Type approval	DNVGL-CG-0339, 2016 (cop)	per transmission only)	
Power consumption 37W maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Bedry material Electro-polished 316L stainless steel on all welded assemblies Fixings material As tainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T640 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 7.5Hz NTSC/25Hz PAL Fixes PAL Fixes PACE for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement T640 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing T640 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing T640 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 prot	Electrical			
Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Table 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Table 2.5-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCl Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Thermal core lens options Fov 13° x 13° (336 x 256) / Fov 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m Thermal core lens options Fov 6.5° x 5° (336 x 256) / Fov 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Supply voltage options	24 VAC, 110 or 230 VAC, 50,	60Hz	
Three M20 entries located in housing rear flange Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm (2)) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Ta36 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/R.3Hz PAL exportable frame rate, digital detail enhancement Ta40 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/R.3Hz PAL exportable frame rate, digital detail enhancement Ta36 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement Ta40 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Ta40 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Ta50 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m Ta50 18° x 5° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of	Power consumption	37W maximum (65W with I	ow temperature operation)	
Mechanical Body material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Doperating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options Ta36 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/B.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/B.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/Z5Hz PAL frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/Z5Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Thermal core lens options Thermal core lens options FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoW mellons FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m	Electrical connections	Terminal block for power, da	ata and video specific to camera configuration	
Electro-polished 316L stainless steel on all welded assemblies	Cable entry	Three M20 entries located i	n housing rear flange	
A4 stainless steel Camera station window Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill Mounting options Pole or wall (see separate datasheets) Operating temperature From -60°C to +70°C (model dependent) Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options Thermal core lens options FoV 13° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m 25mm lens FoV 13° x 10° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m Formal Standard RS485 protocol Commands 640 x 512 Detection of object 4m x 1.5m: Typical 3000m Formal RS485 protocol Commands 640 x 512 D	Mechanical			
Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill	Body material	Electro-polished 316L stainl	ess steel on all welded assemblies	
Mounting optionsPole or wall (see separate datasheets)Operating temperatureFrom -60°C to +70°C (model dependent)Weight (Kg)Up to 15 Kg depending on configurationThermal core module optionsUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancementT640 7.5-8.3HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancementT336 25-30HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensingT640 25-30HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensingThermal core lens optionsThermal core lens optionsThermal core lens optionsFoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m25mm lensFoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m50mm lensFoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Fixings material	A4 stainless steel		
Operating temperatureFrom -60°C to +70°C (model dependent)Weight (Kg)Up to 15 Kg depending on configurationThermal core module optionsUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancementT640 7.5-8.3HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancementT336 25-30HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensingT640 25-30HzUncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensingThermal core lens optionsThermal core lens optionsThermal core lens optionsFoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m25mm lensFoV 13° x 10° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m55mm lensFoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Camera station window	Internal AR and external car	bon coated germanium (50 or 102mm Ø) with protective grill	
Weight (Kg) Up to 15 Kg depending on configuration Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19 mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 9.3° x 7.1° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Mounting options	Pole or wall (see separate d	atasheets)	
Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19 mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Operating temperature	From -60°C to +70°C (mode	el dependent)	
Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 75Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19 mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Weight (Kg)	Up to 15 Kg depending on o	configuration	
336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m 25mm lens FoV 9.3° x 71° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 9.3° x 71° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Thermal core module option	ns		
1336 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	T336 7.5-8.3Hz			·85 protocol Commands
336 x 256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	T640 7.5-8.3Hz			·85 protocol Commands
640 x 512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options 19mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m 25mm lens FoV 9.3° x 71° (336 x 256) / FoV 18° x 10° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m FoV 9.3° x 71° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	T336 25-30Hz			
19mm lens FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m 25mm lens FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m 35mm lens FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m 50mm lens FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	T640 25-30Hz	640 x 512 resolution (PAL),		
25mm lens FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m 35mm lens FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m 50mm lens FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	Thermal core lens options			
35mm lens FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m 50mm lens FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	19mm lens	FoV 17° x 13° (336 x 256) /	FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m	
50mm lens FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	25mm lens	FoV 13° x 10° (336 x 256) /	FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m	
	35mm lens	FoV 9.3° x 7.1° (336 x 256) /	FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m	
100mm lens FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germanium housings only	50mm lens	FoV 6.5° x 5° (336 x 256) / F	FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m	
	100mm lens	FoV 3.3° x 2.5° (336 x 256)	/ FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø102 Germaniu	ım housings only



CROUSE-HINDS SERIES

XF26 HD IP series

Explosion proof, fixed camera station



Overview

The Oxalis XF26 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

Features

- · ATEX and IECEx certified
- Electro-polished 316L stainless steel on all welded assemblies
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options 24 VAC, PoE or 24VDC
- Operating temperature -60°C to +70°C*
- IP66/67 (IP68)
 - *Model dependent





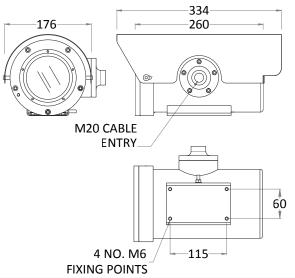
Eaton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0034/J May 2024

Eaton is a registered trademark.

General arrangement drawing (all dimensions in mm)

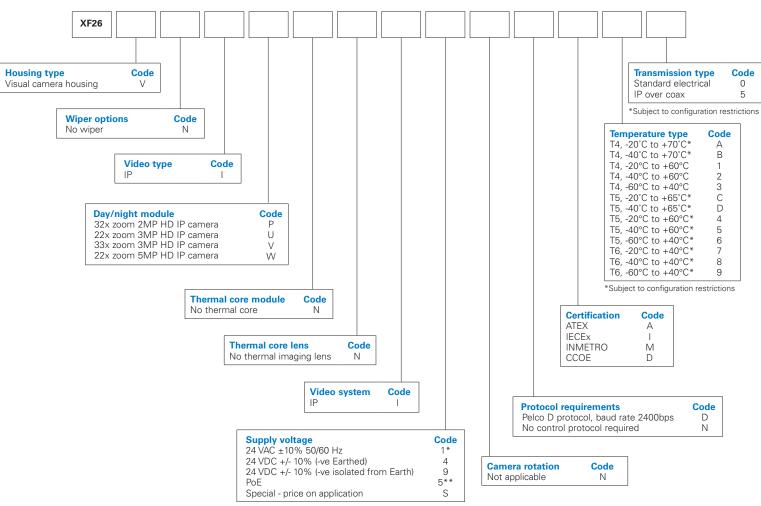
Certi	fications		
ATEX	II 2 G Ex db (op pr) IICT4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X
IECEx	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	CCOE	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P529141



	Electrical	
Standard stainless steel 316L mirror finish	Supply voltage options	24 VAC
No wiper	Power consumption	18W Maximum (45W with low temperature operation)
Standard	Electrical connections	Terminal block for power, data and video specific to camera configuration
No washer	Cable entry	One M20 side entry
Optional integrated IP Ethernet-over-coax converter subject to configuration restrictions (must be used with compatible Rx equipment)	Mechanical	
DNVGL-CG-0339, 2016 (copper transmission only)	Body material	Electro-polished 316L stainless steel on all welded assemblies
IP66/67, IP68 (1.5m for 24 hours)	Fixings material	A4 stainless steel
	Camera station window	Toughened glass
	Mounting options	Pole or wall (see separate datasheets)
	Operating temperature	From -60°C to +70°C (model dependent)
	Weight (Kg)	Up to 8Kg depending on configuration
	No wiper Standard No washer Optional integrated IP Ethernet-over-coax converter subject to configuration restrictions (must be used with compatible Rx equipment) DNVGL-CG-0339, 2016 (copper transmission only)	Standard stainless steel 316L mirror finish No wiper Power consumption Standard Electrical connections No washer Cable entry Optional integrated IP Ethernet-over-coax converter subject to configuration restrictions (must be used with compatible Rx equipment) DNVGLCG-0339, 2016 (copper transmission only) Body material IP66/67, IP68 (1.5m for 24 hours) Fixings material Camera station window Mounting options Operating temperature

Camera options

32x XNZ-6320 HP IP camera		22x zoom 3MP HD IP camera	
Image sensor	Progressive scan CMOS 1/2.8*	Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x240	Resolution	2304 x 1296 @ 30fps
Lens	32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour : 0.05Lux (1/30sec, F1.6, 50IRE), B/W : 0.005Lux (1/30sec, F1.6, 50IRE)	Min. illumination	Colour : 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR	Streaming	Triple streams in H.264, H.265
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	Standards protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.
33x zoom 3MP HD IP ca	mera	22x zoom 5MP HD IP ca	amera
Image Sensor	Progressive scan CMOS 1/2.8"	Image Sensor Progressive scan CMOS 1/2.7"	
Resolution	2304 x 1296 @ 60fps	Resolution	2880 x 1620 @ 30fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)	Min. Illumination	Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265	Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.	Standards Protocols	ONVIF Profiles G, S & T, L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.



^{*}Not camera P

^{**}Not cameras U, V, W



XF26 thermal image analogue series

Explosion proof, fixed camera station



Overview

The Oxalis XF26 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance. This datasheet covers the thermal imaging configurations

Features

- · ATEX, IECEx, Class 1 Division 1 and Zone 1 certified
- Electro-polished 316L stainless steel on welded assembly
- · Camera station window in internal AR and external carbon coated germanium 50 mm Ø with protective
- Pole or wall mounting options (see separate datasheets)

- Supply voltage options (24 VAC)
- Operating temperature -60°C to +70°C*
- IP66/67 (IP68)
 - *Model dependent













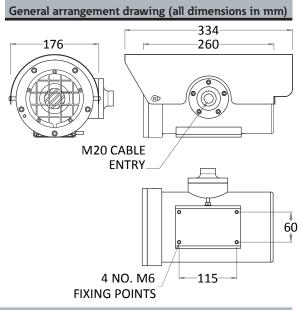
T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com

© 2016 Eaton All Rights Reserved Printed in UK Publication No.DSOX0035/F October 2017

Eaton is a registered trademark

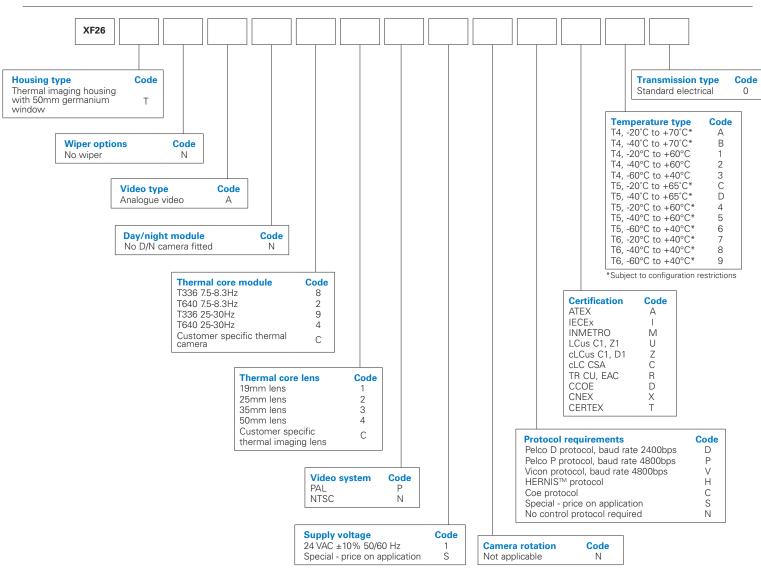


Certifi	Certifications				
ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	cLC CSA	Ex d IICT4 (T5 On Request) LC1311396 -60°C ≤Ta ≤ +60°C. CAN CSA-C22.2 No.60079-0:2011 & 60079-1-2012 Certificate: 11396-1S-CSA		
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	TR CU, EAC	1 Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: TCRUCGB.TE04.B00587		
INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X	CCOE	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P400546/1		
LCus C1/Z1	Class 1 Zone 1 A Ex d IICT4 (T5 On Request) LC13A11396 Gb -60°C ≤Ta ≤ +60°C. UL 60079-0:2009 & 60079-1:2010 Certificate: 11396-1S-UL	CNEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: 17.1235X		
cLCus C1/D1	Class I, Division 1, Groups B, C, D, -60°C≤Ta≤60°C T4 Class II, Division 1, Groups E, F, G IP67. CSA-C22.2 No:30-M1986 No:25-1966(R2009) CSA- C22.2 No:60065-03(R2012) & UL1203,UL60065(ED.7) Certificate: 11671-1S (Gas) / 11677-1S (Dust)	CERTEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: S-XLP/17.0244X		



Certificate. 1107 1-13 (Gds) / 11077-13 (Dust) Certificate: 3-ALF/17.0244A
Specifications	
Certification part number	Housing options 2410-04-TI-50
Features	
Sun shield	Standard stainless steel 316L mirror finish
Integral demister	Standard
Telemetry receiver	Integral - Pelco D, P standard protocols (others to specification)
Ingress protection rating	IP66/67, IP68 (1.5m for 24 hours)
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
Electrical	
Supply voltage options	24 VAC
Power consumption	18W maximum (45W with low temperature operation)
Electrical connections	Terminal block for power, data and video specific to camera configuration
Cable entry	One M20 side entry
Mechanical	
Body material	Electro-polished 316L stainless steel on all welded assemblies
Fixings material	A4 stainless steel
Camera station window	Internal AR and external carbon coated germanium (50 or 102mm Ø) with protective grill
Mounting options	Pole or wall (see separate datasheets)
Operating temperature	From -60°C to +70°C (model dependent)
Weight (Kg)	Up to 8Kg depending on configuration
Thermal core module optio	ns
T336 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement
T640 7.5-8.3Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement
T336 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing
T640 25-30Hz	Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing
Thermal core lens options	
19mm lens	FoV 17° x 13° (336 x 256) / FoV 32° x 26° (640 x 512) Detection of object 4m x 1.5m: Typical 1550m
25mm lens	FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m
35mm lens	FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m
50mm lens	FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m

Ordering requirements



CROUSE-HINDS SERIES

SF60 HD IP series

Fixed camera station



Overview

The Oxalis SF60 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to physical fit and acceptance.

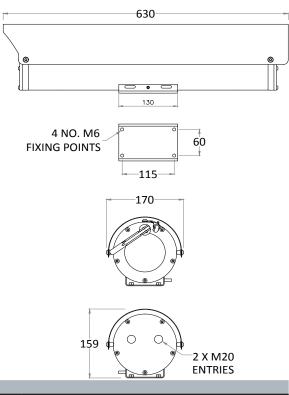
Features

- Electro-polished 316L stainless steel on all welded assemblies
- Pole or Wall mounting options (see separate datasheets)
- Supply Voltage Options (24 VAC,110 or 230 VAC,50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67
 - *Model dependent

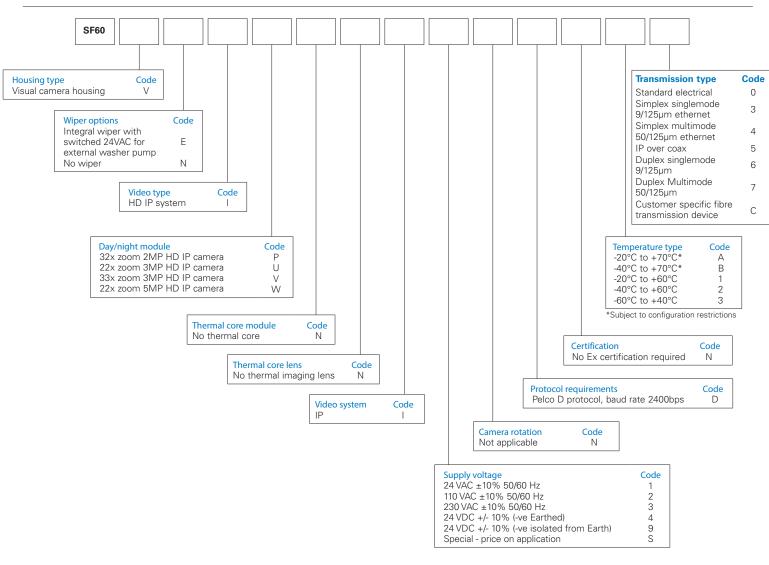


Specifications Features Sun shield Standard stainless steel 316L mirror finish Optional (silicone wiper blades that are resistant and do not perish after Integral wiper long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems Telemetry receiver Integral - Pelco D IP direct fibre out Optional media converter, Simplex/Duplex Singlemode 9/125µm or Multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3 Optional integrated IP ethernet-over-coax converter (must be used with IP over coax compatible Rx equipment) Electrical 24 VAC, 110 or 230 VAC, 50/60Hz Supply voltage options Power consumption 37W Maximum (65W with low temperature operation) **Electrical connections** Terminal block for power, data and video specific to camera configuration Cable entry Two M20 entries located in housing rear flange Mechanical **Body** material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Toughened glass Camera station window Pole or wall (see separate datasheets) Mounting options Operating temperature From -60° C to +70° C (model dependent) Weight (Kg) Up to 13Kg depending on configuration DNVGL-CG-0339, 2016 (copper transmission only) Type approval IP66/67 Ingress protection rating

General arrangement drawing (all dimensions in mm)



1/2.8" .4mm F1.5~F3.8, horizontal angle of AGC ON), B/W 0.001Lux (F1.5, AGC	
.4mm F1.5~F3.8, horizontal angle of	
AGC ON), B/W 0.001 Lux (F1.5, AGC	
H.265	
BLC,EIS,WDR,Defog,OSD,Day & d-cut with auto switch)	
ARP, TCP, UDP, DHCP, PPP0E, RTP, TP, UPnP, HTTP, SNMP, SIP.	
22x zoom 5MP HD IP camera	
1/2.7"	
.4mm F1.5~F3.8, horizontal angle	
AGC ON), B/W 0.001 Lux (F1.5, AGC	
1.265	
BLC,EIS,WDR,Defog,OSD,Day & -cut with auto switch)	
ARP, TCP, UDP, DHCP, PPPoE, RTP, TTP, UPnP, HTTP, SNMP, SIP.	
1 1	



SF60 thermal image analogue series

Fixed camera station



Overview

The Oxalis SF60 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to physical fit and acceptance.

This datasheet covers the thermal imaging configurations.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC,110 or 230 VAC,50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67
 - *Model dependent



T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com





Specifications Features Sun shield Standard stainless steel 316L mirror finish Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems Telemetry receiver Integral - Pelco D, P standard protocols (others to specification) Rotation Continuous Pan or 350° Rotation (+/- 175° from straight ahead) Analogue direct fibre out Optional singlemode 9/125um or multimode 50/125um video and data fibre optic transmission, mounted inside the camera station IP66/67 Ingress protection rating Type approval DNVGL-CG-0339, 2016 (copper transmission only) Electrical 24 VAC, 110 or 230 VAC, 50/60Hz Supply voltage options Power consumption 37W Maximum (65W with low temperature operation) Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Two M20 entries located in housing rear flange Mechanical Electro-polished 316L stainless steel on all welded assemblies **Body material** Fixings material Camera station window Internal AR and external carbon coated germanium Ø50 mm Mounting options Pole or wall (see separate datasheets) Operating temperature From -60° C to +70° C (model dependent) Up to 13Kg depending on configuration Weight (Kg) Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17 μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T640 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T336 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640×512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and T640 25-30Hz

FoV 17° \times 13° (336 \times 256) / FoV 32° \times 26° (640 \times 512) Detection of object 4m \times 1.5m: Typical 1550m

FoV 13° \times 10° (336 \times 256) / FoV 25° \times 20° (640 \times 512) Detection of object 4m \times 1.5m: Typical 2200m

FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m

FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m

 $FoV 3.3^{\circ} \times 2.5^{\circ} (336 \times 256) \ / \ FoV 6.2^{\circ} \times 5.0^{\circ} (640 \times 512) \ Detection \ of \ object \ 4m \times 1.5m: Typical \ 6000m. \ \emptyset 90 \ Germanium \ housings \ only \ for \ for$

licensing

Thermal core lens options

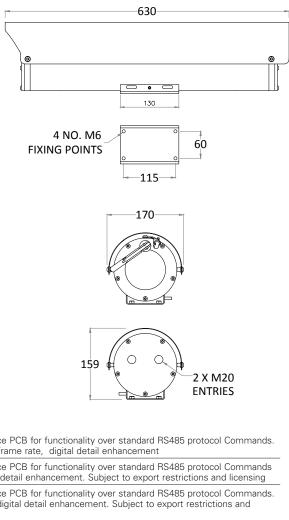
19mm lens

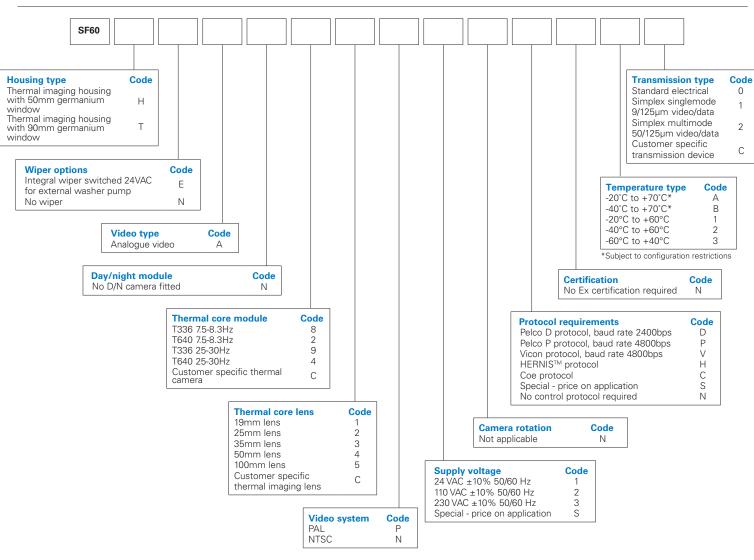
25mm lens 35mm lens

50mm lens

100mm lens

General arrangement drawing (all dimensions in mm)







SF40 HD IP series

Fixed camera station



Overview

The Oxalis SF40 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Pole or Wall mounting options (see separate datasheets)
- Supply Voltage Options (24 VAC, 50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67
 - *Model dependent



Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

T: +44 (0) 1623 444 400 MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0059/I June 2024

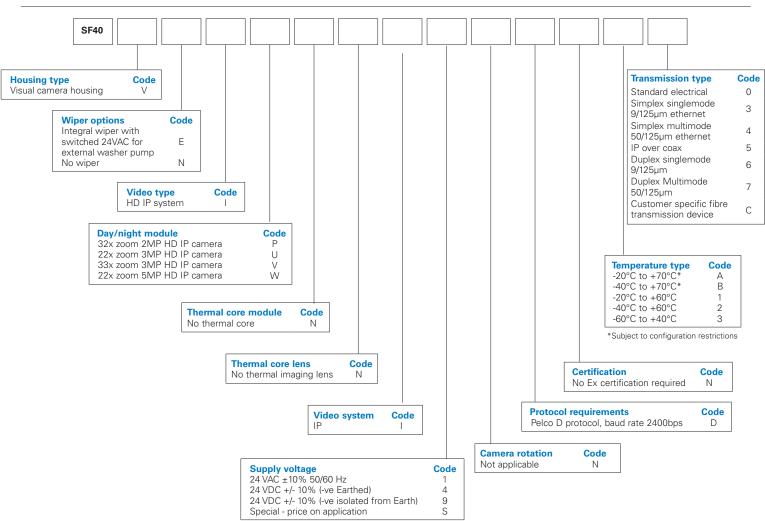
Eaton is a registered trademark.

Features	
Sun shield	Standard stainless steel 316L mirror finish
Integral wiper	Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold)
Integral demister	Standard
Washer systems	Compatible with Oxalis SW washer tanks (see separate datasheets)
Telemetry receiver	Integral - Pelco D
IP direct fibre out	Optional media converter, Simplex/Duplex Singlemode 9/125µm or Multimode 50/125µm, 10/100Mb Ethernet, IEEE 802.3
IP over coax	Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment)
Electrical	
Supply voltage options	24 VAC, 50/60Hz
Power consumption	37W Maximum (65W with low temperature operation)
Electrical connections	Terminal block for power, data and video specific to camera configuration
Cable entry	Two M20 entries located in housing rear flange
Mechanical	
Body material	Electro-polished 316L stainless steel on all welded assemblies
Fixings material	A4 stainless steel
Camera station window	Toughened glass
Mounting options	Pole or wall (see separate datasheets)
Operating temperature	From -60° C to +70° C (model dependent)
Weight (Kg)	Up to 9Kg depending on configuration
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
Ingress protection rating	IP66/67

General arrangement drawing (all dimensions in mm) 430 4 NO. M6 FIXING POINTS 170 170

2 X M20 ENTRIES

Camera options			
32x XNZ-6320 HP IP camera		22x zoom 3MP HD IP camera	
Image sensor	Progressive scan CMOS 1/2.8"	Image sensor	Progressive scan CMOS 1/2.8"
Resolution	Resolution: 1920x1080 @60fps to 320x240	Resolution	2304 x 1296 @ 30fps
Lens	32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour: 0.05Lux (1/30sec, F1.6, 50IRE), B/W: 0.005Lux (1/30sec, F1.6, 50IRE)	Min. illumination	Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR	Streaming	Triple streams in H.264, H.265
Features	Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour	Standards protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.
33x zoom 3MP HD IP camera		22x zoom 5MP HD IP camera	
Image Sensor	Progressive scan CMOS 1/2.8"	Image Sensor	Progressive scan CMOS 1/2.7"
Resolution	2304 x 1296 @ 60fps	Resolution	2880 x 1620 @ 30fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°	Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)	Min. Illumination	Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265	Streaming	Triple streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)	Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.	Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.



SF40 thermal image analogue series

Fixed camera station



Overview

The Oxalis SF40 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

This datasheet covers the thermal imaging configurations.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC,50/60Hz)
- Operating temperature -60°C to +70°C*
- IP66/67
 - *Model dependent



T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com





Specifications Features Sun shield Standard stainless steel 316L mirror finish Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems Telemetry receiver Integral - Pelco D, P standard protocols (others to specification) Analogue direct fibre out Optional singlemode 9/125µm or multimode 50/125µm video and data fibre optic transmission, mounted inside the camera station Ingress protection rating DNVGL-CG-0339, 2016 (copper transmission only) Type approval Electrical 4 NO. M6 Supply voltage options FIXING POINTS 37W Maximum (65W with low temperature operation) Power consumption Electrical connections Terminal block for power, data and video specific to camera configuration Cable entry Two M20 entries located in housing rear flange Mechanical Electro-polished 316L stainless steel on all welded assemblies **Body material** A4 stainless steel Fixings material Internal AR and external carbon coated germanium Ø50 mm Camera station window Pole or wall (see separate datasheets) Mounting options 159 Operating temperature From -60° C to +70° C (model dependent) Weight (Kg) Up to 9Kg depending on configuration Thermal core module options T336 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336×256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T640 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T336 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 336 x 256 resolution, 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing T640 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and Thermal core lens options

FoV 6.5° x 5° (336 x 256) / FoV 12.4° x 9.9° (640 x 512) Detection of object 4m x 1.5m: Typical 3900m

FoV 3.3° x 2.5° (336 x 256) / FoV 6.2° x 5.0° (640 x 512) Detection of object 4m x 1.5m: Typical 6000m. Ø90 Germanium housings only

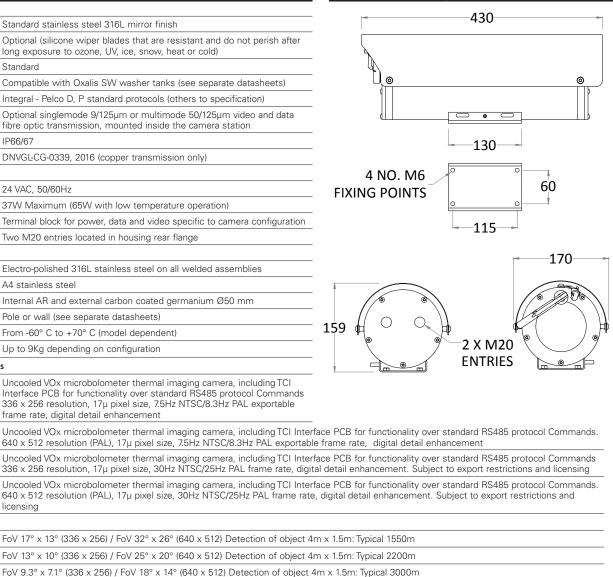
19mm lens

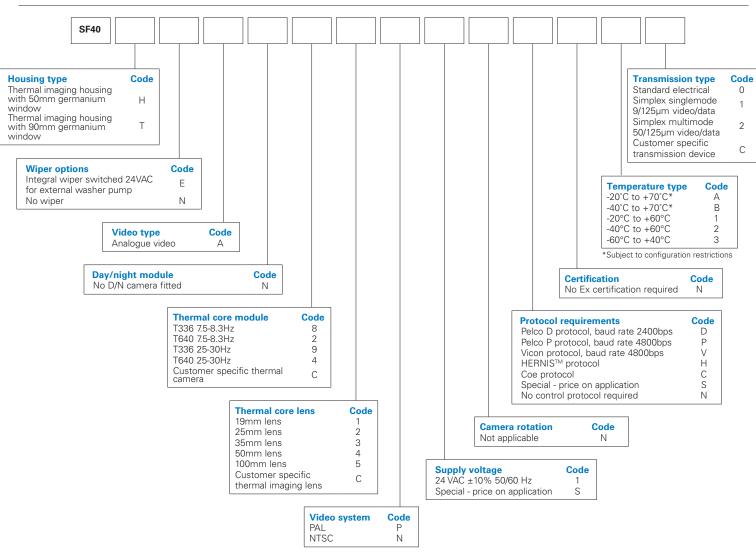
25mm lens

35mm lens

50mm lens 100mm lens

General arrangement drawing (all dimensions in mm)





SF26 thermal image analogue series

Fixed camera station



Overview

The Oxalis SF26 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance. This datasheet covers the thermal imaging configurations.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 50/60Hz)
- Operating temperature from -60°C to -70°C*
- IP66/67
 - *Model dependent



Powering Business Worldwide

Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2015 Eaton All Rights Reserved Printed in UK Publication No.DSOX0064/E October 2017

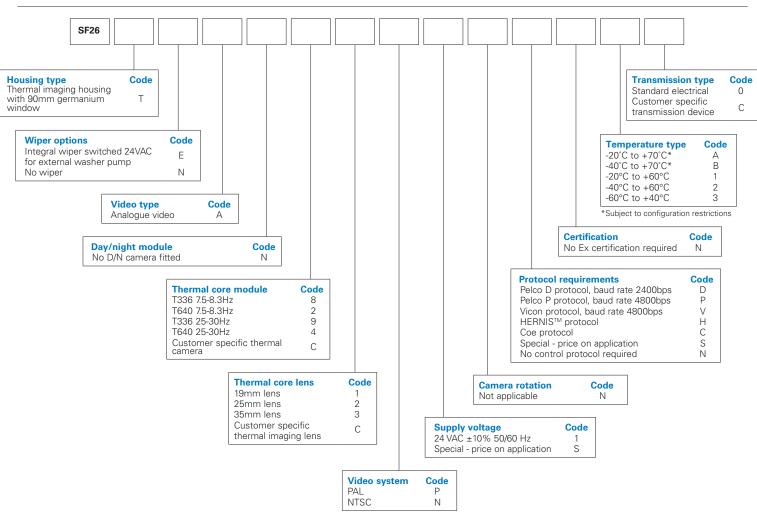
Eaton is a registered trademark

General arrangement drawing (all dimensions in mm) **Specifications Features** 331 Sun shield Standard stainless steel 316L mirror finish Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems 0 Telemetry receiver Integral - Pelco D, P standard protocols (others to specification) IP66/67 Ingress protection rating DNVGL-CG-0339, 2016 (copper transmission only) Type approval Electrical 130 24 VAC, 50/60Hz Supply voltage options Power consumption 17W Maximum (45W with low temperature operation) 4 NO. M6 **Electrical connections** Terminal block for power, data and video specific to camera configuration 60 Cable entry **FIXING POINTS** Two M20 entries located in housing rear side Mechanical **Body** material Electro-polished 316L stainless steel on all welded assemblies 115 Fixings material A4 stainless steel Camera station window Internal AR and external carbon coated germanium Ø50 mm 170 Mounting options Pole or wall (see separate datasheets) From -60° C to +70° C (model dependent) Operating temperature Up to 8Kg depending on configuration Weight (Kg) Thermal core module options Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands T336 7.5-8.3Hz 336×256 resolution, 17μ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Uncooled VOx microbolometer thermal imaging camera, including TCI T640 7.5-8.3Hz Interface PCB for functionality over standard RS485 protocol Commands. 640 x 512 resolution (PAL), 17µ pixel size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement T336 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands 159 336×256 resolution, 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing 2 X M20 T640 25-30Hz Uncooled VOx microbolometer thermal imaging camera, including TCI **ENTRIES** Interface PCB for functionality over standard RS485 protocol Commands. 640×512 resolution (PAL), 17μ pixel size, 30Hz NTSC/25Hz PAL frame rate, digital detail enhancement. Subject to export restrictions and licensing Thermal core lens options FoV 17° \times 13° (336 \times 256) / FoV 32° \times 26° (640 \times 512) Detection of object 4m \times 1.5m: Typical 1550m 19mm lens

FoV 13° x 10° (336 x 256) / FoV 25° x 20° (640 x 512) Detection of object 4m x 1.5m: Typical 2200m FoV 9.3° x 7.1° (336 x 256) / FoV 18° x 14° (640 x 512) Detection of object 4m x 1.5m: Typical 3000m

25mm lens

35mm lens



CROUSE-HINDS

XF40 TI IP series

Explosion proof, fixed camera station



Overview

The Oxalis XF40 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

This datasheet covers the thermal imaging configurations

Features

- · ATEX, IECEx, Class 1 Division 1 and Zone 1 certified
- Temperature alarm option
- Electro-polished 316L stainless steel on all welded assemblies
- Standard stainless steel 316L mirror
- Pole or wall mounting options (see separate datasheets)

- Supply voltage 24 VAC, 50/60Hz
- · Operating temperature -60°C to +70°C*
- IP66/67 (IP68)













NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com

© 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0086/B June 2024

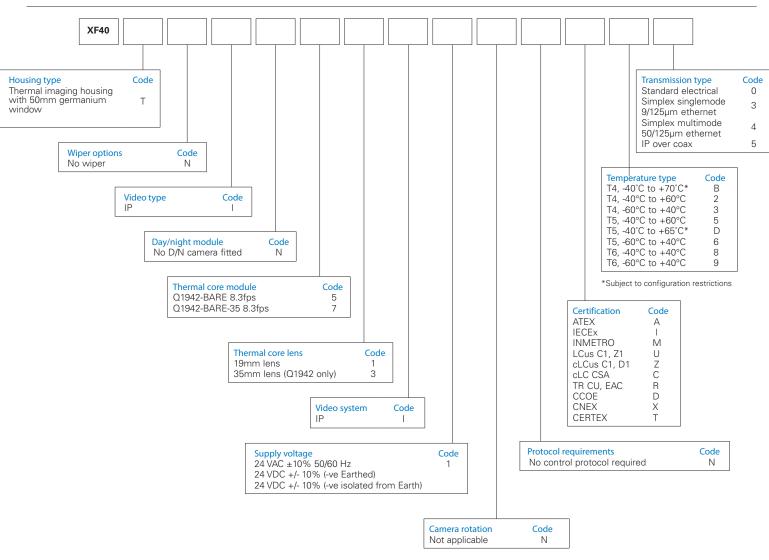
Eaton is a registered trademark



ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	cLC CSA	Ex d IIC T4 (T5 On Request) LC1311396 -60°C \leq Ta \leq +60°C. CAN CSA-C22.2 No.60079-0:2011 & 60079-1-2012 Certificate: 11396-1S-CSA
IECEx	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	TR CU, EAC	1 Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: TCRUCGB.IF604.B00587
INMETRO	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X	CCOE	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P400546/1
LCus C1/Z1	Class 1 Zone 1 A Ex d IIC T4 (T5 On Request) LC13A11396 Gb -60°C ≤Ta ≤ +60°C. UL 60079-0:2009 & 60079-1:2010 Certificate: 11396-1S-UL	CNEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: 17.1235X
cLCus C1/D1	Class I, Division 1, Groups B, C, D, -60°C≤Ta≤60°C T4 Class II, Division 1, Groups E, F, G IP67. CSA-C22.2 No:30-M1986 No:25-1966(R2009) CSA- C22.2 No:60065-03(R2012) & UL1203,UL60065(ED.7) Certificate: 11671-1S (Gas) / 11677-1S (Dust)	CERTEX	Ex db (op pr) IICT4 Gb -60°C to +70°C Ex tb (op pr) IIICT140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: S-XLP/17.0244X

General arrangement drawing (all dimensions in mm) -480 -400 4 NO. M6 60 FIXING POINTS -115 BACK 176 VIEW 3 x M20 **ENTRIES**

Certification part number	1410-TI-50		
Features		Mechanical	
Sun shield	Standard stainless steel 316L mirror finish	Body material	Electro-polished 316L stainless steel on all welded assemblies for maximum corrosion protection
Integral demister	Standard	Fixings material	A4 stainless steel (not including structural fixings)
Telemetry receiver	Integral	Camera station window	Internal AR and external carbon Coated Germanium with protective grill
IP direct fibre out	Optional media converter, simplex singlemode 9/125µm or multimode 50/125µm ,10/100Mb ethernet, IEEE 802.3	Mounting options	Pole or wall (see separate datasheets)
IP over coax	Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment)	Operating temperature	From -60°C to +70°C* (model dependent)
Electrical		Weight	Up to 15 Kg depending on configuration
Supply voltage options	24 VAC	Ingress protection rating	IP66/67, IP68 (1.5m for 24 hours)
Power consumption	28W max	Type approval	DNVGL-CG-0339, 2016 (copper transmission only)
Electrical connections	Terminal for power, RJ45 for Network		
Cable entry	Three M20 entries located in housing rear flange		
Thermal camera options			
Q1942-BARE 8.3fps		Q1942-BARE-35 8.3fps	
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps	Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps
Lens	Athermalized, 19 mm, F1.23, Horizontal field of view: 32°	Lens	Athermalized, 35 mm, F1.2, Horizontal field of view: 17°
Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264	Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264
Features	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - Video Motion Detection, Shock detection	Features	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - Video Motion Detection, Shock detection
Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/ SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S	Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/ SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S



SF40 TI IP series

Fixed camera station



Overview

The Oxalis SF40 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

This datasheet covers the thermal imaging configurations.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Temperature alarm option
- Compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options 24 VAC 50/60Hz
- Operating temperature -60°C to +70°C*
- IP66/67
 - *Model dependent



T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0088/B May 2024

Eaton is a registered trademark.

Specifications Features 430 Sun shield Standard stainless steel 316L mirror finish Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems Telemetry receiver Integral IP direct fibre out Optional media converter, simplex singlemode 9/125µm or multimode 50/125µm ,10/100Mb ethernet, IEEE 802.3 IP over coax Optional integrated IP ethernet-over-coax converter (must be used with 130 compatible Rx equipment) Ingress protection rating 4 NO. M6 DNVGL-CG-0339, 2016 (copper transmission only) Type approval **FIXING POINTS** Electrical Supply voltage options 24 VAC, 50/60Hz 115 37W maximum Power consumption **Electrical connections** Terminal block for power, RJ45 for network Cable entry Two M20 entries located in housing rear flange Mechanical Electro-polished 316L stainless steel on all welded assemblies Body material Fixings material A4 stainless steel Internal AR and external carbon coated germanium Ø50 mm 159 Camera station window Mounting options Pole or wall (see separate datasheets) From -60° C to +70° C (model dependent) Operating temperature Weight (Kg) Up to 9Kg depending on configuration Thermal camera options T320 7.5-8.3Hz Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. 324 x 256 resolution, 25μμρίχεΙ size, 7.5Hz NTSC/8.3Hz PAL exportable frame rate, digital detail enhancement Q1942-BARE 8.3fps Q1942-BARE-35 8.3fps Uncooled Micro bolometer 640x480, pixel size: 17 µm Image sensor Image sensor Spectral range: 8-14 µm upto 8.3fps Athermalized, 19 mm, F1.23, Horizontal field of view: 32° Lens Lens H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Streaming Streaming Motion JPEG. Three H.264 and Motion JPEG streams Controllable frame rate and bandwidth VBR/CBR H.264 Features Compression, mirroring of images, rotation, multiple pal-**Features**

ettes, brightness, sharpness, contrast, electronic image

stabilization, automatic gain control, exposure zone, max

IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ,

FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/

v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP,

IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF

Standard protocols

gain, text and image overlay, privacy mask. Analytics -

video motion detection, shock detection

Profile S

Standard protocols

image stabilization, automatic gain control, exposure

zone, max gain, text and image overlay, privacy mask.

IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ,

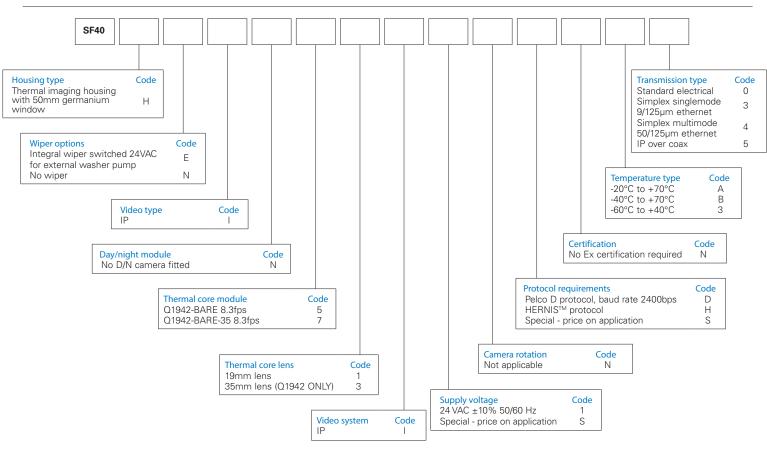
FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/

v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP,

IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF

Profile S

Analytics - video motion detection, shock detection



XF60 TI IP series

Explosion proof, fixed camera station



Overview

The Oxalis XF60 is an explosion protected fixed camera housing for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to conformity to certification, physical fit and acceptance.

This datasheet covers the thermal imaging configurations.

Features

- · ATEX and IECEx certified
- Temperature alarm
- Electro-polished 316L stainless steel on all welded assemblies
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC, 110 or 230 VAC, 50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67 (IP68)

*Model dependent





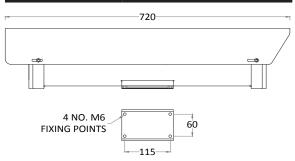
Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

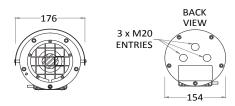
T: +44 (0) 1623 444 400 www.eaton.com/cctv MEDCSales@Eaton.com © 2025 Eaton All Rights Reserved Printed in UK Publication No.DSOX0090/D May 2025

Eaton is a registered trademark.

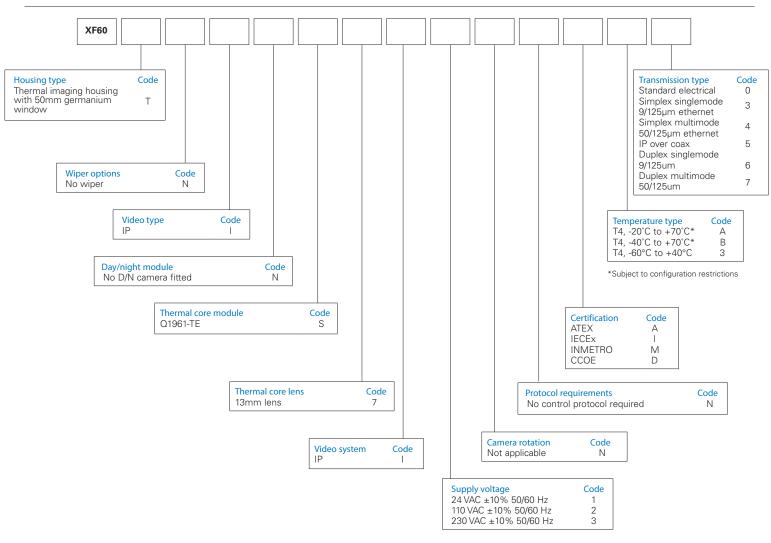
Certifications			
ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X	INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X	CCOE	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: P529141

General arrangement drawing (all dimensions in mm)





Features		Mechanical	
Sun shield	Standard stainless steel 316L mirror finish	Body material	Electro-polished 316L stainless steel on all welded assemblies for maximum corrosion protection
Integral demister	Standard	Fixings material	A4 stainless steel (not including structural fixings)
Telemetry Receiver	Integral	Camera station window	Internal AR and external carbon Coated Germanium (50 or 102mm Ø) with protective grill
IP direct fibre out	Optional media converter, simplex singlemode 9/125μm or multimode 50/125μm ,10/100Mb ethernet, IEEE 802.3	Mounting options	Pole or wall (see separate datasheets)
IP over coax	Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment)	Operating temperature	From -60°C to +70°C* (model dependent)
Electrical		Weight	Up to 18 Kg depending on configuration
Supply voltage options	24 VAC, 110 or 230 VAC, 50/60Hz	Ingress protection rating	IP66/67, IP68 (1.5m for 24 hours)
Power consumption	37W maximum (65W with low temperature operation)		
Electrical connections	Terminal for power, RJ45 for Network		
Cable entry	Three M20 entries located in housing rear flange		
Thermal Camera Options			
Q1961-TE			
Image sensor	Uncooled Micro bolometer 384x288, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps		
Lens	Athermalized, 13 mm, F1.0, Horizontal field of view: 28°		
Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles, H.265 (MPEG-H part 2/HEVC) Main Profile Motion JPEG. Three video streams, controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265		
Image settings	Contrast, brightness, sharpness, local contrast, exposure zones, compression, rotation: 0°, 90°, 180°, 270° including corridor format, mirroring, text and image overlay, polygon privacy mask, electronic image stabilization, multiple color palettes		
Resolutions	Sensor is 384x288. Image can be scaled up to 768x576		
Standard protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSc, HTTP/2,TLSd, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnPR, SNMP v1/v2c/v3 (MIB-III), DNS/DNSv6, DDNS,NTP, NTS, RTSP, RTP, SRTP, CP, UDP, IGMPv1/v2/v3, RTCP, ICMP,DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)		



SF60 TI IP series

Fixed camera station



Overview

The Oxalis SF60 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

The large format housing allows the installation of custom specified camera, lens and transmission equipment subject to physical fit and acceptance.

This datasheet covers the thermal imaging configurations.

Features

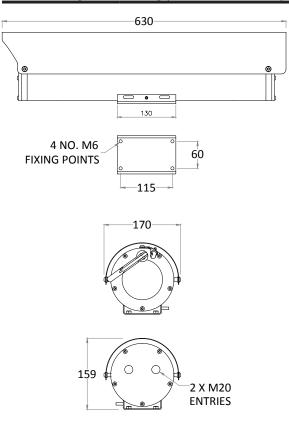
- Electro-polished 316L stainless steel on all welded assemblies
- · Temperature alarm option
- Compatible with Oxalis SW washer tanks (see separate datasheets)
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options (24 VAC,110 or 230 VAC,50/60Hz)
- Operating temperature from -60°C to +70°C*
- IP66/67
 - *Model dependent



Specifications Features Sun shield Standard stainless steel 316L mirror finish Integral wiper Optional (silicone wiper blades that are resistant and do not perish after long exposure to ozone, UV, ice, snow, heat or cold) Integral demister Compatible with Oxalis SW washer tanks (see separate datasheets) Washer systems Telemetry receiver Integral Rotation Continuous pan or 350° rotation (+/- 175° from straight ahead) Optional media converter, simplex singlemode 9/125 μ m or multimode 50/125 μ m ,10/100Mb ethernet, IEEE 802.3 IP direct fibre out Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment) IP over coax Ingress protection rating IP66/67 DNVGL-CG-0339, 2016 (copper transmission only) Type approval Electrical 24 VAC, 110 or 230 VAC, 50/60Hz Supply voltage options 37W maximum (65W with low temperature operation) Power consumption Electrical connections Terminal block for power, RJ45 for network Cable entry Two M20 entries located in housing rear flange Mechanical Electro-polished 316L stainless steel on all welded assemblies **Body material** Fixings material A4 stainless steel Internal AR and external carbon coated germanium Ø50mm or Ø90mm Camera station window Mounting options Pole or wall (see separate datasheets) From -60° C to +70° C (model dependent) Operating temperature Weight (Kg) Up to 13Kg depending on configuration Uncooled VOx microbolometer thermal imaging camera, including TCI Interface PCB for functionality over standard RS485 protocol Commands. T320 7.5-8.3Hz 324 x 256 resolution, 25μμρίχεΙ size, 7.5Hz NTSC/8.3Hz PAL exportable

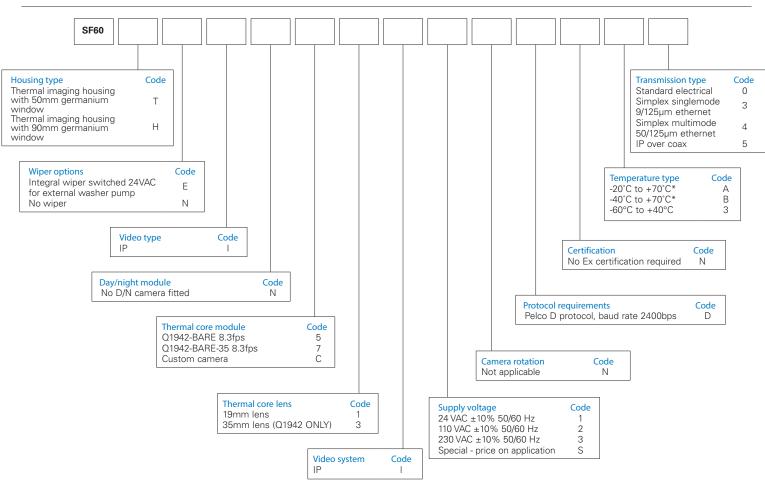
frame rate, digital detail enhancement

General arrangement drawing (all dimensions in mm)



Thermal camera options	
Q1942-BARE 8.3fps	

Q1942-BARE 8.3fps		Q1942-BARE-35 8.3fps	
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps	Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps
Lens	Athermalized, 19 mm, F1.23, Horizontal field of view: 32°	Lens	Athermalized, 35 mm, F1.2, Horizontal field of view: 17°
Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264	Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264
Features	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - video motion detection, shock detection	Features	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - video motion detection, shock detection
Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S	Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S



SF26 HD IP series

Fixed camera station



Overview

The Oxalis SF26 is a fixed camera housing for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Pole or wall mounting options (see separate datasheets)
- Supply voltage options 24 VAC
- Operating temperature -60°C to +70°C*
- IP66/67 (IP68)

*Model dependent



Laton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

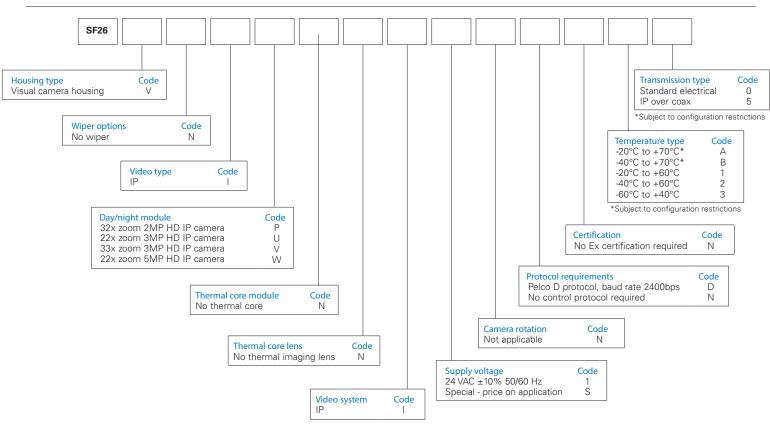
T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2021 Eaton All Rights Reserved Printed in UK Publication No.DSOX0103/B August 2021

Eaton is a registered trademark.

General arrangement drawing (all dimensions in mm) **Specifications Features** 331 Sun shield Standard stainless steel 316L mirror finish Integral wiper No wiper Integral demister Standard Washer systems No washer IP over coax Optional integrated IP Ethernet-over-coax converter subject to configuration restrictions (must be used with compatible Rx equipment) DNVGL-CG-0339, 2016 (copper transmission only) Type approval IP66/67, IP68 (1.5m for 24 hours) Ingress protection rating Electrical Supply voltage options 130 18W Maximum (45W with low temperature operation) Power consumption Electrical connections Terminal block for power, data and video specific to camera configuration 4 NO. M6 Cable entry Two M20 entries located in housing rear side 60 FIXING POINTS Mechanical **Body material** Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel 115 Camera station Toughened glass 170 window Mounting options Pole or wall (see separate datasheets) Operating From -60°C to +70°C (model dependent) temperature Weight (Kg) Up to 8 Kg depending on configuration Camera options 32x XNZ-6320 HP IP camera Image sensor Progressive scan CMOS 1/2.8" 1920x1080 @60fps to 320x240 Resolution Lens 32x optical 32x digital zoom 4.44-142.6 mm F1.6 to F4.4, horizontal angle of view 61.8° - 2.19° Min. illumination Colour: 0.05Lux (1/30sec, F1.6, 50IRE), B/W: 0.005Lux (1/30sec, F1.6, 50IRE) 159 H.264, H.265 MJPEG dual codec, multiple streaming, VBR/CBR Streaming Intelligent video analytics, motion detection, day & night (ICR), WDR (150dB), auto focus, auto Iris, AGC, SSDR, ATW, SSNRIII, BLC, DIS, Defog **Features** 2 X M20 **ENTRIES** Standards protocols ONVIF Profile S, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour 22x zoom 3MP HD IP camera Progressive scan CMOS 1/2.8" Image sensor Resolution 2304 x 1296 @ 30fps Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96° Min. illumination Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) Triple streams in H.264, H.265 Streaming **Features** AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. Standards protocols 33x zoom 3MP HD IP camera Progressive scan CMOS 1/2.8" Image sensor Resolution 2304 x 1296 @ 60fps 33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67° Lens Min. illumination Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON) Five streams in H.264, H.265 Streaming AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) **Features** L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP. Standards protocols 22x zoom 5MP HD IP camera Progressive scan CMOS 1/2.7" Image Sensor Resolution 2880 x 1620 @ 30fps Lens 22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 55.46° - 3.09° Colour: 0.003Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON) Min. Illumination Triple streams in H.264, H.265 Streaming AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch) **Features**

L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPP0E, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

Standards Protocols



SF60 HD IR IP series

Fixed camera station with smart illuminator



Overview

The Oxalis SF60 is a fixed camera housing with integral SMART illumination, designed for use in onshore, offshore, marine and heavy industrial environments.

The camera housings are designed for longevity in harsh environments with minimal maintenance.

Features

- Electro-polished 316L stainless steel on all welded assemblies
- Pole or Wall mounting options (see separate datasheets)
- Supply Voltage Options (24 VAC/ DC,110 or 230 VAC,50/60Hz
- Operating temperature from -60°C to +70°C
- IP66/67



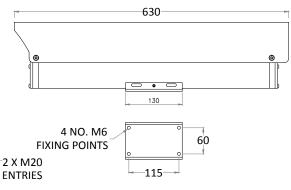
Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

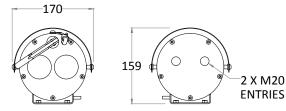
T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2024 Eaton All Rights Reserved Printed in UK Publication No.DSOX0123/B April 2024

Eaton is a registered trademark.

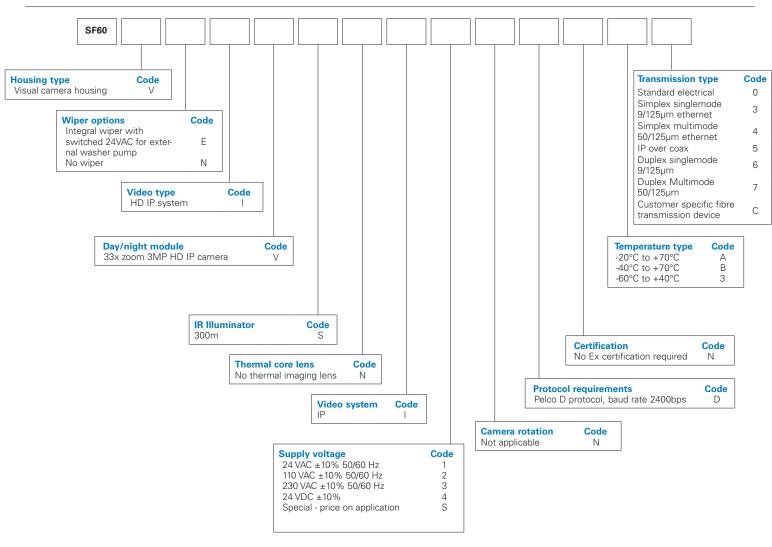
Specifications Features Sun shield Standard stainless steel 316L mirror finish Optional (silicone wiper blades that are resistant and do not perish after Integral wiper long exposure to ozone, UV, ice, snow, heat or cold) Integral demister IR Laser Illuminator, internally powered from camera station, range up to Integral Illumination 300m, 850nm wavelength Washer systems Compatible with Oxalis SW washer tanks (see separate datasheets) Telemetry receiver Integral - Pelco D Optional media converter, Simplex/Duplex Singlemode 9/125 μ m or Multimode 50/125 μ m, 10/100Mb Ethernet, IEEE 802.3 IP direct fibre out Optional integrated IP ethernet-over-coax converter (must be used with IP over coax compatible Rx equipment) Electrical 24, 110, 230 VAC, 50/60Hz or 24 VDC Supply voltage options Power consumption 49W Maximum (77W with low temperature operation) Terminal block for power, data and video specific to camera configuration **Electrical connections** Two M20 entries located in housing rear flange Cable entry Mechanical **Body** material Electro-polished 316L stainless steel on all welded assemblies Fixings material A4 stainless steel Toughened glass Camera station window Pole or wall (see separate datasheets) Mounting options Operating temperature From -60° C to +70° C (model dependent) Weight (Kg) Up to 13Kg depending on configuration DNVGL-CG-0339, 2016 (copper transmission only) Type approval IP66/67

General arrangement drawing (all dimensions in mm)





ingress protection rating	1700/07
Camera options	
33x zoom 3MP HD IP camera:	
Image Sensor	1/2.8" progressive scan CMOS
Resolution	2304 x 1296 @ 60fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 56.11° - 2.67°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)
Streaming	Triple streams in H.265 / H.264
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
Smart	Intrusion, Cross Line, Motion Detection, Object moving



XFG1 GRP Fixed HD IP Camera

Ex d, weatherproof, fixed camera station



Overview

The Oxalis XFG fixed camera station has been designed for use in potentially explosive atmospheres and harsh environmental conditions - suitable for use both offshore or onshore, where light weight combined with corrosion resistance is required.

Built upon the proven Eaton MEDC expertise, the housing is made from a UV stable glass reinforced polyester and supplied with a 316L stainless steel mounting bracket ensuring a totally corrosion free product.

With its multiple voltage options, lens choice, worldwide certification and wide operating temperature, the XFG is suitable for most applications.

Features

- ATEX, IECEx and CCOE, Zone 1, 2, 21 & 22
- Ex db IIB T4/T5/T6, Ex tb IIIC T135/ T100/T85°C
- IP66 and IP67
- Certified and operating temperature range from -60° to +70°C
- · Corrosion free GRP
- Supply voltage 12 VDC, 24 VDC, 24 VAC, 220 VAC, PoE
- Optional fibre transmission
- · Various cable tail lengths

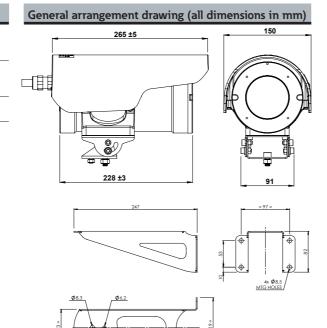




Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2022 Eaton All Rights Reserved Printed in UK Publication No.DSOX0121/C November 2022

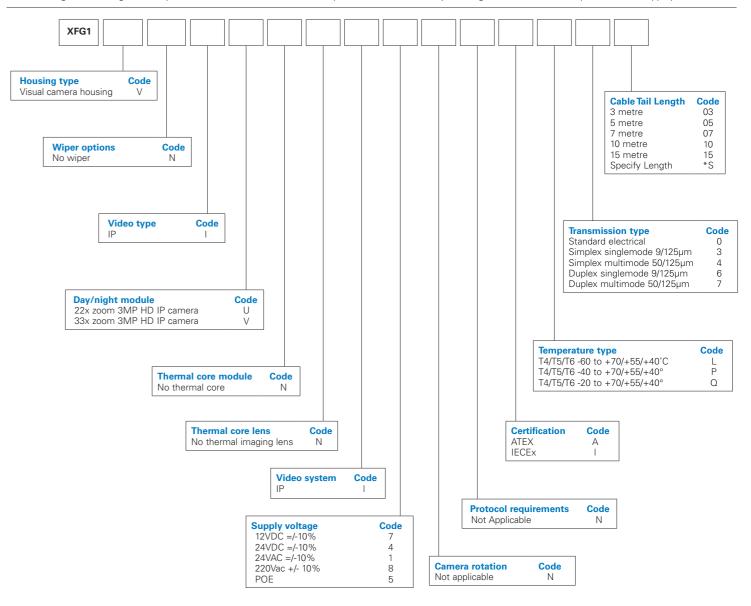
Eaton is a registered trademark.



Specifications	
Features	
Body	Flame retardant, UV stable, glass reinforced polyester, 5VA flammability rating
Sun shield	Flame retardant, UV stable, glass reinforced polyester, VO flammability rating
Camera station window	Toughened glass
Fixings material	316L stainless steel
Integral demister	Standard
IP direct fibre out options	Optional media convertor,simplex/duplex singlemode 9/125µm or multimode 50/125µm, 10/100Mb Ethernet, IEE 802.3
Operating temperature	From -60° to +70°C
Mounting options	Supplied with swivel and wall mounting bracket. Swivel range pan 200°, tilt 15° up, 80° down. (Tilt is interchangeable)
Ingress Protection Rating	IP66, IP67
Weight (kg)	up to 4 kg including sunshield, 6 kg including mounting brackets
Electrical	
Supply voltage options	12VDC, 24VDC, 24VAC, 220 VAC or PoE
Power consumption	12VDC, 24VAC/DC, 13W nominal, (24W @ -20°C, 43W @ -40°C, 63W @ -60°C with low temperature operation). 220VAC 13W nominal (63W @ -20°C, -40°C, -60°C with low temperature operation) POE 10W nominal, (20W @ -20°C, 36W @ -40°C, 52W @ -60°C with low temperature operation)
Cable Entry	Product is supplied with conduit tail, length selectable in order code. Power cables 1mm ≤10m,1.5mm ≤15m.
Camera options	
22x zoom 3MP HD IP came	та
Image sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 30fps
Lens	22x optical zoom 5.2~114.4mm F1.5~F3.8, horizontal angle of view 53.74° - 2.96°
Min. illumination	Colour: 0.002Lux (F1.5, AGC ON), B/W 0.001Lux (F1.5, AGC ON)
Streaming	Triple streams in H.264, H.265
Features	AGC, AE, AWB, TDN, DNR, BLC, EIS, WDR, Defog, OSD, Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.
33x zoom 3MP network car	mera
Image Sensor	Progressive scan CMOS 1/2.8"
Resolution	2304 x 1296 @ 60fps
Lens	33x optical zoom 4.5~148.5mm F1.5~F4.0, horizontal angle of view 62.93° - 3.67°
Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON), B/W 0.0005Lux (F1.5, AGC ON)
Streaming	Five streams in H.264, H.265
Features	AGC, AE,AWB,TDN,DNR,BLC,EIS,WDR,Defog,OSD,Day & Night Auto Colour/BW (IR-cut with auto switch)
Standards Protocols	L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP.

Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box



DSOX0121/C 11/22

11/22