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 finish
- Pole or wall mounting options (see separate datasheets)
- Supply voltage 24 VAC, 50/60Hz
- Operating temperature -60˚C to +70˚C*
- IP66/67 (IP68)

ATEX IECEx cLCus CNEX INMETRO

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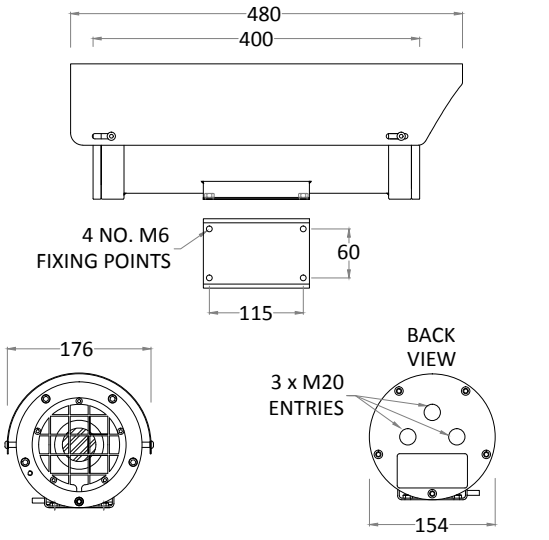
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All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice.
No liability is accepted for any consequence of use.

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 IIC T4 (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/17.0244X

General arrangement drawing (all dimensions in mm)

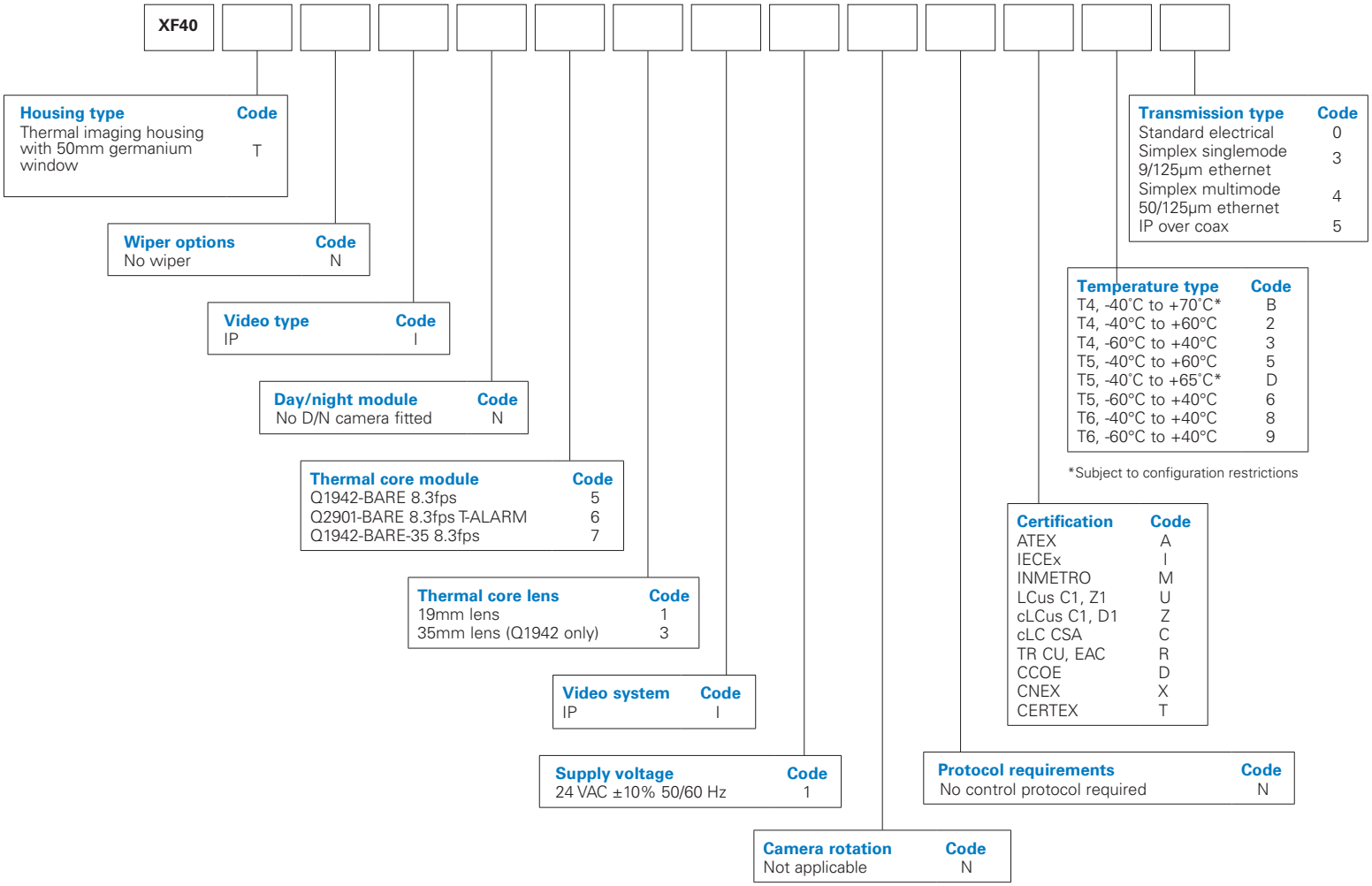


Specifications

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
Q2901-BARE 8.3fps			
Image sensor	Uncooled Micro bolometer 336x256, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps		
Lens	Athermalized, 19 mm, F1.23, 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		
Features	Temperature Alarm and isothermal palettes, Spot temperature Sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks 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		
Thermography	Object temperature range -40 °C to 550 °C (-40 °F to 1022 °F) Temperature alarm zones triggering alarms based on deviation of the temperature		

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



*Subject to configuration restrictions