

P/N: 70901-0301

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



General description

Large fires need substantial equipment to extinguish them as fast as possible. When entire buildings such as warehouses or other large structures catch fire, a fire truck with an aerial command platform needs to be at the scene. A fire hose is mounted on the aerial platform, and an operator directs the hose so that it sprays onto the fire. Often, the view of the operator is obstructed by smoke so that it is impossible to see if the hose is directed onto the flames. But with a thermal imaging camera like the FLIR KF6, the operator is able to see through the smoke. The flames will appear white in the thermal image and the water spray black, so that the operator can see if they are effectively hitting the flames.

Benefits:

- **Crisp thermal images:** The FLIR KF6 contains a maintenance-free, Vanadium oxide (VOx) detector that produces crisp thermal images. This allows for detailed thermal images in which even small details can be seen and small hot spots detected during overhaul operations.
- **FSX—Flexible Scene Enhancement:** Details in the thermal image are enhanced through digital image processing inside the camera. The result is an ultra-sharp thermal image that shows more detail than a standard image. FSX makes it easier for firefighters to see through smoke and find hot spots—even in scenes with extreme temperature dynamics that are typical for a firefighting environment.
- **Rugged and reliable:** The FLIR KF6 is designed to meet tough operating conditions. Its core is well protected by a rugged housing, meaning that the detector cannot be harmed by smoke or water.
- **Easy to install:** The FLIR KF6 is easy to install on any aerial platform. Just connect it to 10.5–32 V DC and you will get composite video out. No communication or hand controls needed—it is fully automatic.

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	< 100 mK at f/1.4
Field of view (FOV)	69° × 56°
Focus	Fixed
F number	1.4
Image frequency	30 Hz

Detector data

Detector type	Focal plane array, uncooled microbolometer
Spectral range	7.5–13.5 μm

Image presentation

Image mode	TI Basic firefighting mode
Auto range	Yes

Measurement

Object temperature range	<ul style="list-style-type: none"> • High-gain range: –25 to +135°C (–13 to +275° F) • Low-gain range: 0 to +550°C (+32 to +1022° F)
Accuracy	±10°C (±18°F) or ±10% in high gain range



FLIR KF6, NTSC, Bottom Mounted, F

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Measurement analysis	
Spotmeter	1
Isotherm	Yes
Configuration	
Video standard	NTSC
Mounting	Bottom mounted
Temperature unit	°F
Composite video	
Video out	Composite video output, NTSC compatible
Power system	
Power input	10.5–32 V DC (ISO 7637-2)
Start-up time	< 25 seconds
Power consumption	< 5 W average, when supplied with 28 V DC
Connector	
Power and video connector	13-pin MIL-C-38999, D38999/24FB35PN Mating connector: D38999/26FB35SN
Environmental data	
Operating temperature range	–32 to +65°C (–26 to +149°F)
Storage temperature range	–40 to +70°C (–40 to +158°F)
Humidity (operating and storage)	IEC 600 68-2-30, 24 hours, 95% relative humidity, 25–40°C (77–104°F), two cycles
EMC	<ul style="list-style-type: none">• EN 61000-6-2:2005 (immunity)• EN 61000-6-3:2011 (emission)• FCC 47 CFR Part 15 B (emission)• ISO7637-2 Road Vehicles – Electrical Disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. (Immunity)
Encapsulation	IP 67 (IEC 605 29)
Shock	IEC 600 68-2-27, 25g peak half sine wave
Vibration	IEC 600 68-2-6, 0.15 mm 10 Hz to 58 Hz and 2 g 58 to 500 Hz sinusoidal
Physical data	
Weight	1.2 ± 0.1 kg (2.6 ± 0.2 lb.)
Size (L × W × H)	158 mm × 112 mm × 89 mm (6.2 in. × 4.4 in. × 3.5 in.)
Housing material	Aluminum
Color	White and black
Shipping information	
List of contents	<ul style="list-style-type: none">• Infrared camera• Printed documentation
Packaging size	247 mm × 175 mm × 175 mm (9.7 in. × 6.9 in. × 6.9 in.)
EAN-13	7332558011331
UPC-12	845188012250
Country of origin	Sweden



FLIR KF6, NTSC, Bottom Mounted, F

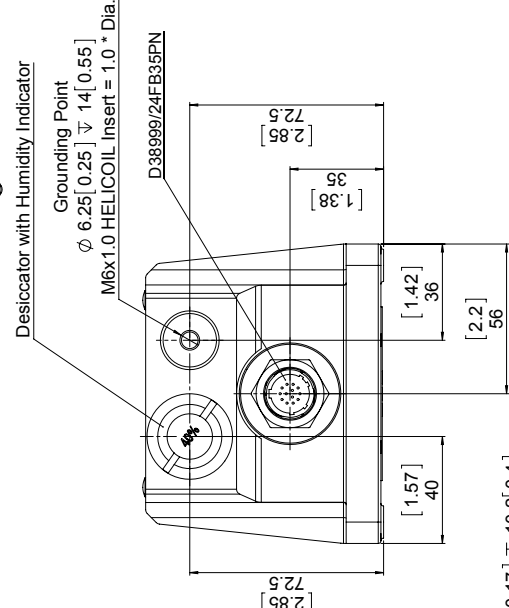
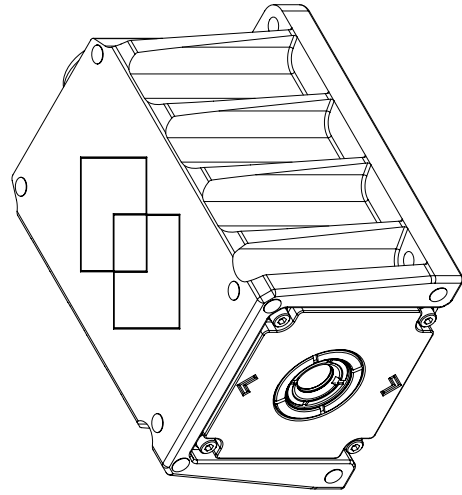
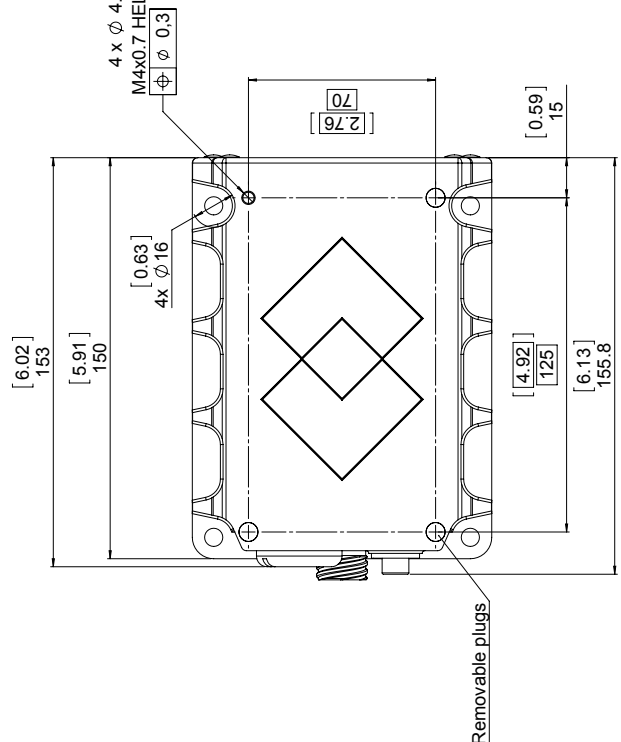
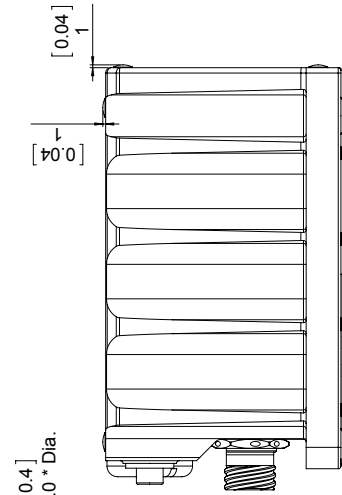
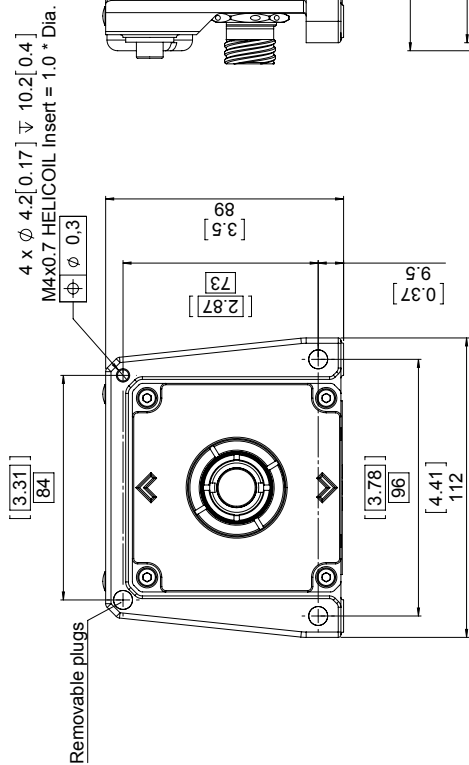
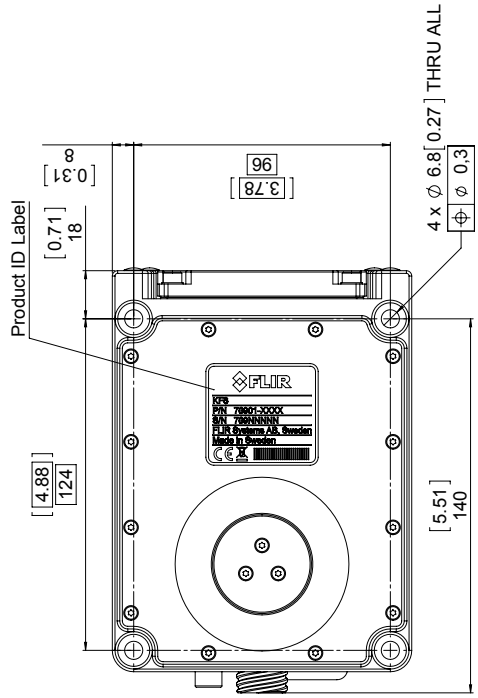
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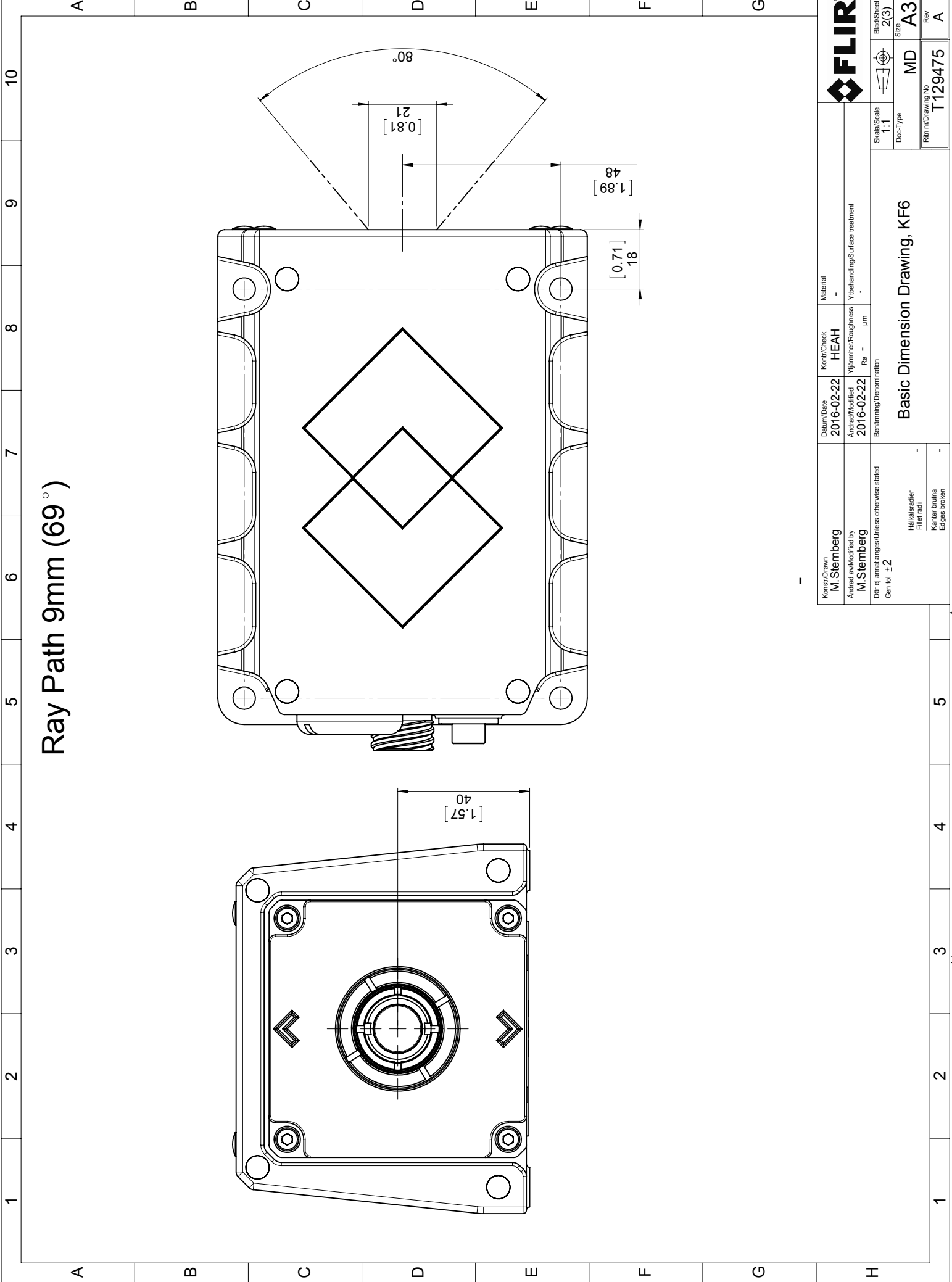
Supplies and accessories:

- T129748ACC; Power and video cable, 2 m



Weight: 1,2kg \pm 0,1kg

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Project Manager		M. Sternberg		2016-02-22		HEAH		Material				
Project Engineer		M. Sternberg		2016-02-22		HEAH		Material				
Project Designer		M. Sternberg		2016-02-22		HEAH		Material				
Project Checker		M. Sternberg		2016-02-22		HEAH		Material				
Project Approver		M. Sternberg		2016-02-22		HEAH		Material				
Project Reviewer		M. Sternberg		2016-02-22		HEAH		Material				
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Project Witness		M. Sternberg		2016-02-22		HEAH		Material				
Project Observer		M. Sternberg		2016-02-22		HEAH		Material				
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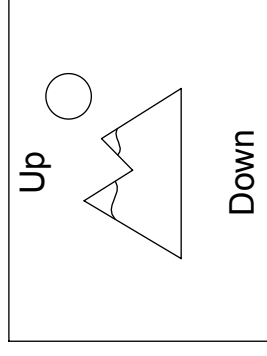
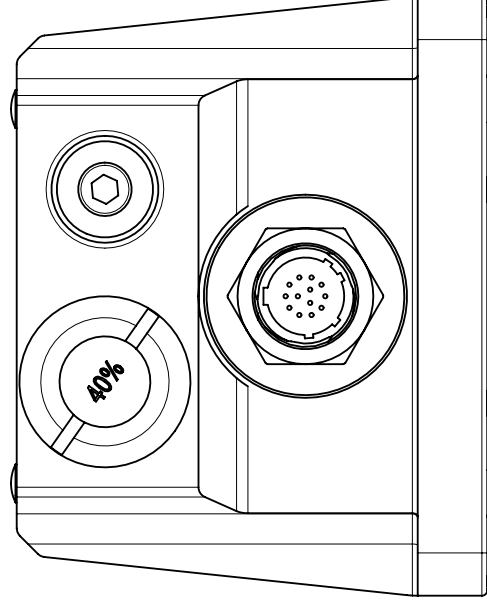
Ray Path 9mm (69 °)

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Övervakelse härav bekräftar med stöd av gällande lag.
sin helhet eller delar utan vårt medgivande
kopierats i

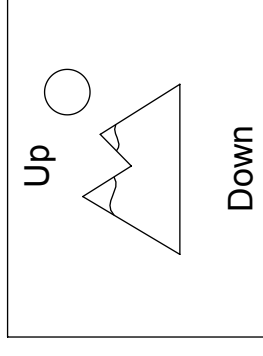
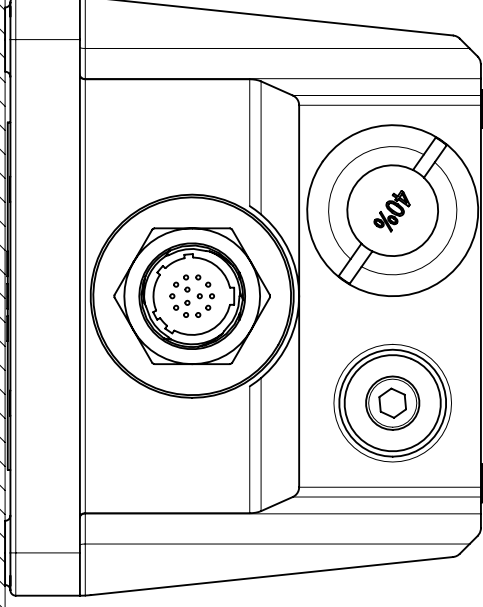
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FLIR		Konstr/Drawn		Datum/Date		Kontroll/Check		Material	
		M. Sternberg		2016-02-22		HEAH		-	
		Ändrad av/Modified by		Ändrad/Modified		Ytfinish/Roughness		Ytbehandling/Surface treatment	
		M. Sternberg		2016-02-22		Ra - μm		-	
		Där ej annat anges/Unless otherwise stated		Benämning/Denomination					
		Gen tol. ± 2							
		Hållarskålar							
		Fillet radi							
		Kantler brutna							
		Edges broken							

Top Mounted



Bottom Mounted



Konst./Drawn	M. Sternberg	Datum/Date	2016-02-22	Kontroll/Check	HEAH	Material		<div></div>	
Ändrad av/Modified by	M. Sternberg	Ändrad/Modified	2016-02-22	Råhet/Roughness	µm	Ytbehandling/Surface treatment	-		
Där ej annat anges/Unless otherwise stated									
Gen för ±2									
Hålkaliradler Filet radi	-								
Kanter brutna Edges broken	-								
Basic Dimension Drawing, KF6									
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								Blad/Sheet	3(3)
								Rev.	A
						Rin nr/Drawing No		T129475	

December 27, 2016

AQ320210

CE Declaration of Conformity

This is to certify that the System listed below has been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonizing standards. The systems consequently meet the requirements for the CE-mark.

Directives:

Directive 2014/30/EU:**Electromagnetic Compatibility**Standards:**Emission:****EN 61000-6-3****Electromagnetic Compatibility
Generic standards - Emission****Immunity:****EN 61000-6-2****Electromagnetic Compatibility
Generic standards - Immunity****System:****KF6-series**FLIR Systems AB
Quality Assurance
Björn Svensson
Director, Quality Assurance