AXIS F4105-SLRE Dome Sensor
Stainless steel mini dome sensor with IR

Enclosed in a stainless steel casing, this robust sensor unit is resistant to hot pressure water and harsh detergents. Certified for use in food processing and catering facilities, it can handle temperatures from −30°C to 45°C (−22°F to 113°F). With NEMA TS2 rating, it can be used in temperatures up to 74°C for 15 hours. It delivers great image usability and Forensic WDR provides clarity when there's both dark and light areas in the scene. Plus, IR illumination enables surveillance in complete darkness. Designed for use with AXIS F91 main units, it's possible to connect up to four sensors to the main unit.

> **Up to 60 fps at 1080p and 180 fps at 720p**
> **Stainless steel casing (SS 316L)**
> **NFS/ANSI Standard 169 certified**
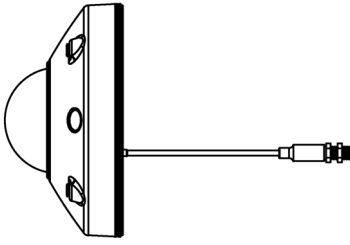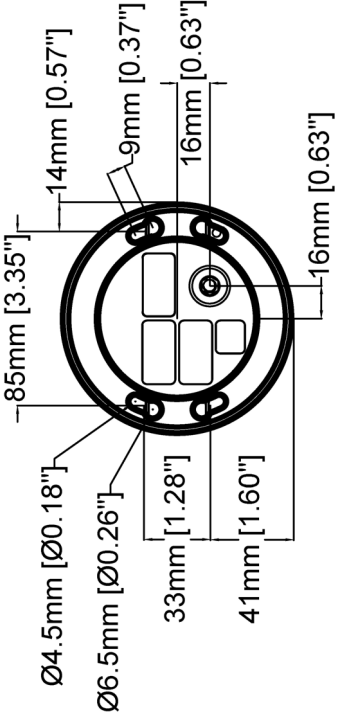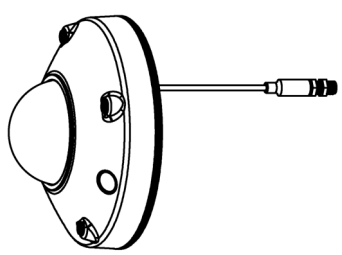> **IR illumination up to 10 m (33 ft.)**
> **Exchangeable M12 lenses**

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AXIS F4105-SLRE Dome Sensor

Camera

Image sensor	1/2.8" (effective) progressive scan RGB CMOS
Lens	2.8 mm, F1.6 **For 1080p:** Horizontal field of view: 110° Vertical field of view: 60° **For 720p:** Horizontal field of view: 70° Vertical field of view: 39°
Day and night	Automatically removable infrared-cut filter
Minimum illumination	**Color:** 0.3 lux at 50 IRE, F2.0 0 lux with IR illumination on
Shutter speed	**With AXIS F9111:** 1080p, 25/30 fps: 1/20000 s to 1.5 s 1080p, 50/60 fps: 1/27000 s to 1 s HDTV 720p, 175/180 fps: 1/32500 s to 0.5 s **With AXIS F9104–B, F9114 and F9114–B:** 1080p, 25/30 fps: 1/20000 s to 1.5 s HDTV 720p, 50/60 fps: 1/32500 s to 0.5 s
Camera angle adjustment	Pan: ±180° Tilt: 120° Rotation: ±90°
Resolution	Maximum 1920x1080 HDTV 1080p
WDR	WDR – Forensic Capture

Approvals

Product markings	UL, CE, KC, NFS, VCCI, RCM, WEEE
Supply chain	TAA Compliant
EMC	EN 55035, EN 55032 Class B, EN 50121-4, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, IEC 62236-4 **Australia/New Zealand:** RCM AS/NZS CISPR 32 Class B **Canada:** ICES-3(A)/NMB-3(B) **Japan:** VCCI Class B **Korea:** KS C 9835, KS C 9832 Class B **USA:** FCC Part 15 Subpart B Class B
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, IEC/EN 62471 risk group exempt
Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78, IEC/EN 62262 IK10, IEC 60529 IP66, IEC 60529 IP67, IEC 60529 IP69, NEMA 250 Type 4X
Certifications	**NFS/ANSI Standard 169** Certificate: C0759806

General

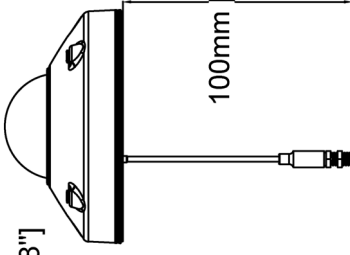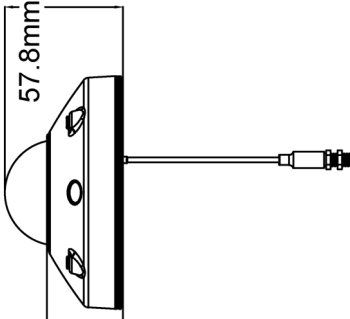|	
Casing	IP66-, IP67-, and IP69-rated, IK10 impact-resistant stainless steel casing Polycarbonate hard-coated dome and dehumidifying membranes Electropolished SS 316L stainless steel Encapsulated electronics Captive stainless steel screws
Mounting	Mounting bracket with junction box holes (single-gang)
Sustainability	PVC and BFR/CFR free
Power	Typical 1.9 W, max 4.16 W
Connectors	SMA connector
IR illumination	IR with power-efficient, long-life 940 nm IR LEDs Two individually adjustable IR LEDs Range of reach 10 m (33 ft) or more depending on the scene
Operating conditions	**With IR illumination off** -30 °C to 55 °C (-22 °F to 131 °F) **With IR illumination on** -30 °C to 45 °C (-22 °F to 113 °F) Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F) Start-up temperature: -40 °C (-40°F) Humidity 10–100% RH (condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Dimensions	Depth: 57.8 mm (2.3 in) ø 114 mm (4.5 in) Cable length: 100 mm (3.9 in) Effective Projected Area (EPA): 0.0045 m² (0.048 ft²)
Weight	452 g (1 lb)
Required hardware	AXIS TU6004–E Cable, or AXIS TU6005 Plenum Cable, or AXIS TU6007–E Cable AXIS F91 Main Unit
Included accessories	Installation Guide, lens tool
Optional accessories	**Lenses** Lens M12 2.1 mm F1.8 IR: horizontal field of view 151° Lens M12 3.6 mm F1.8 IR: horizontal field of view 88° Lens M12 6 mm, F1.9 IR: horizontal field of view 58° Lens M12 8 mm F1.8 IR: horizontal field of view 42° **Other** AXIS TU6002 Right-angle SMA Adaptor For more accessories, see *axis.com*
Warranty	5-year warranty, see *axis.com/warranty*
Part numbers	Available at *axis.com/products/axis-f4105-slre-dome-sensor#part-numbers*

Sustainability

Substance control	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709 RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu*
Environmental responsibility	*axis.com/environmental-responsibility* Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

Detect, Observe, Recognize, Identify (DORI)

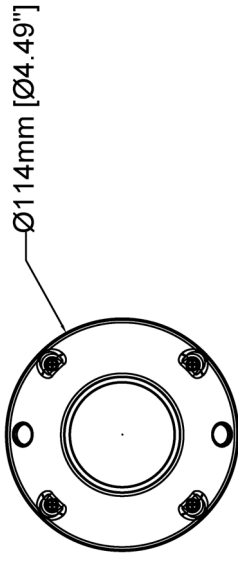| Center	DORI definition	Distance
Detect	25 px/m (8 px/ft)	27.5 m (90.2 ft)
Observe	63 px/m (19 px/ft)	15.6 m (51.2 ft)
Recognize	125 px/m (38 px/ft)	7.8 m (25.6 ft)
Identify	250 px/m (76 px/ft)	4.2 m (13.8 ft)

The DORI values are calculated using the default 2.8 mm lens. The values use pixel densities for different use cases as recommended by the EN-62676-4 standard. The calculations use the center of the image as the reference point and consider lens distortion. The possibility to recognize or identify a person or object depends on factors such as object motion, video compression, lighting conditions, and camera focus. Use margins when planning. The pixel density varies across the image, and the calculated values can differ from the distances in the real world.

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14mm [0.57"]
9mm [0.37"]
16mm [0.63"]
16mm [0.63"]
85mm [3.35"]
Ø4.5mm [Ø0.18"]
Ø6.5mm [Ø0.26"]
33mm [1.28"]
41mm [1.60"]
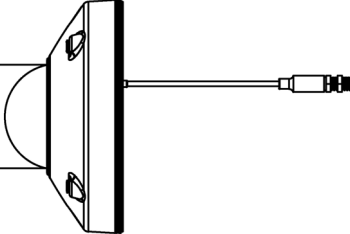
100mm [Ø3.94"]
Ø114mm [Ø4.49"]

57.8mm [2.28"]
37.19mm [1.46"]

50.71mm [2.00"]

Revision	v.01	Revision date	2024-02-12
Paper size	A4	Release date	2024-02-12
Created by	MS	Scale	1:3

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Highlighted capabilities

Exchangeable lenses

Different lens options offer the opportunity to adjust the field of view (FoV) of the product, and thereby adapt it to your chosen area of use. The lens can be easily changed, for example to make the product cover wider areas, or to make it focus on details or objects of interest.

IP69

IP ratings (ingress protection) are defined as a two-digit code where the first digit is the level of protection against the intrusion of solid foreign objects and the second digit is the level of protection against the intrusion of water.

IP69 – the product is dust-tight and hot pressure water can´t harm the product.

IR Illumination

IR illumination is a power-efficient, artificial light source with infrared light that achieves high-quality video even in pitch black environments.

Rugged

Rugged is a term that for Axis modular and onboard products describes a device's endurance and stability in high vibration environments – over time. High vibration environments could be inside or close to machinery or inside vehicles. Rugged products from Axis are constructed to keep operating in these challenging conditions for the entire lifetime of the product.

Stainless steel casing

Stainless steel (SS 316L) is a material with a high resistance to rusting and corrosion with a lower proportion of carbon in its composition. The Electropolished surface is free from imperfections and micro roughness's ensuring the stainless steel casing to remain resistant to rust, staining and environmental degradation.

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