

## 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



# 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

### Frame rate

Up to 60/50 fps (60/50 Hz) in 1080p and up to 180/175 fps (60/50 Hz) in 720p<sup>1</sup>

### Camera adjustment

Pan: ±180°

Tilt: 120°

Rotation: ±90°

### Resolution

Maximum 1920x1080 HDTV 1080p

## 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

1. For sensor units and main units capture mode specifications, see capture mode table.

## 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

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## 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)

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## Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

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## 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 m<sup>2</sup> (0.048 ft<sup>2</sup>)

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## Weight

452 g (1 lb)

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## Required hardware

AXIS TU6004–E Cable, or AXIS TU6005 Plenum Cable, or  
AXIS TU6007–E Cable  
AXIS F91 Main Unit

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## Included accessories

Installation Guide, lens tool

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## 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](http://axis.com)

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## Warranty

5-year warranty, see [axis.com/warranty](http://axis.com/warranty)

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## Part numbers

Available at [axis.com/products/axis-f4105-slre-dome-sensor#part-numbers](http://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](http://echa.europa.eu)

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### Environmental responsibility

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)

Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](http://unglobalcompact.org)

## Capture mode

Capture mode includes frame rate and shutter speed for the sensor unit in combination with different main units.

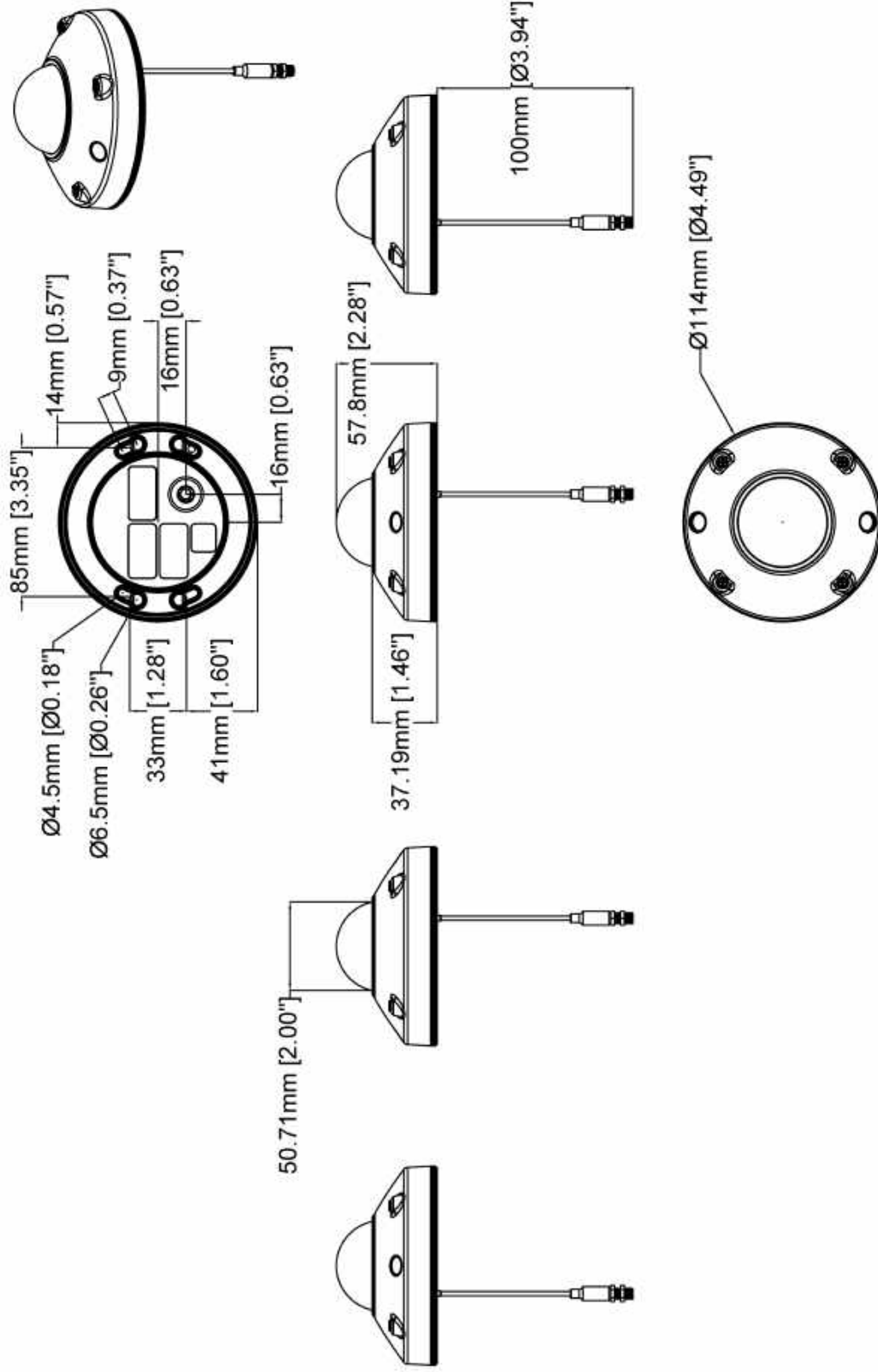
| Main unit                                                                                                         | Resolution                  | Exposure    | Frame rate (fps)<br>(60/50Hz) | Shutter speed<br>(seconds) |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|-------------------------------|----------------------------|
| AXIS F9111                                                                                                        | 1080p: 1920x1080            | Without WDR | 60/50                         | 1/27000 to 1 s             |
|                                                                                                                   |                             | WDR         | 30/25                         | 1/20000 to 1.5 s           |
|                                                                                                                   | 720p: 1280x720 <sup>2</sup> | Without WDR | 180/175                       | 1/32500 to 1/2 s           |
| AXIS F9111-R Mk II                                                                                                | 1080p: 1920x1080            | Without WDR | 60/50                         | 1/43500 to 1 s             |
|                                                                                                                   |                             | WDR         | 30/25                         | 1/20000 to 1.5 s           |
|                                                                                                                   | 720p: 1280x720 <sup>2</sup> | Without WDR | 180/175                       | 1/32500 to 1/2 s           |
| AXIS F9114, AXIS<br>F9114-B, AXIS<br>F9104-B, AXIS<br>F9114-R Mk II, AXIS<br>F9114-B Mk II, AXIS<br>F9104-B Mk II | 1080p: 1920x1080            | Without WDR | 30/25                         | 1/20000 s to 1 s           |
|                                                                                                                   |                             | WDR         | 30/25                         | 1/20000 s to 1 s           |
|                                                                                                                   | 720p: 1280x720 <sup>2</sup> | Without WDR | 60/50                         | 1/32500 to 1/2 s           |

2. No WDR support. To get WDR, use 1080p: 1920x1080 and scale down.

**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.



## 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.