Allied Vision



# FXO CXP (4 Connections)

fxo935MCX12-4C-FF

## General

| | |
|---|---|
| Model | fxo935MCX12-4C-FF |
| Product code | F002431 |
| Product series | FXO CXP (4 Connections) |
| Status | Available |

## Sensor

| | |
|---|---|
| Sensor type | Area scan |
| Chroma | Mono |
| Spectrum | Visible |
| Spectral range | 400 nm to 1000 nm |
| Resolution | 5,328 × 4,608 (24.60 MP) |
| Sensor model | Sony IMX935 |
| Sensor architecture (material) | cmos |
| Shutter type(s) | Global shutter (GS) |
| Sensor size | 14.6 × 12.63 mm (19.3 mm, Type 1.2) |
| Pixel size | 2.74 µm × 2.74 µm |

## Pixel formats

| | |
|---|---|
| Sensor bit depth | 12-bit, 8-bit |
| Monochrome pixel formats | mono12, mono8 |

## Timing and gain

| | |
|---|---|
| Max. frame rate | 192 fps |
| Exposure time | 7 µs to 60 s |
| Gain | 0.0 dB to 48.0 dB |

## I/Os and power

| | |
|---|---|
| Non-isolated lines | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 0 x 24V input, 1 x Open drain output, |
| Specific non-isolated lines | 0 x RS232 input, 0 x RS232 output, 0 x RS422 input, 0 x RS422 output, |
| Opto-isolated lines | 1 x Optical isolated input, 0 x Optical isolated input, |
| I/O connector | 4-pin molex 53398-0471 |
| Power supply | Power over CoaXPress only |
| Power consumption | 9 W (typical) |

## Operating conditions

| | |
|---|---|
| Operating temperature | -10 °C to 60 °C (housing) |
| Humidity | 10 % to 90 % (non-condensing) |

## Mechanical properties

| | |
|---|---|
| Body dimensions (L x W x H in mm) | 19 × 50 × 50 |
| IP class | IP30 |
| Lens mount(s) | Flat Front |
| Weight | 120 g |

## On-board memory and FPGA

| | |
|---|---|
| Non-volatile memory (Flash) | 32 MByte |

## Interfaces

| | |
|---|---|
| Digital interface | cxp-12 with 4 connections |
| Interface connector | (micro-BNC) |
| Vision standard | CoaXPress 2.0 |

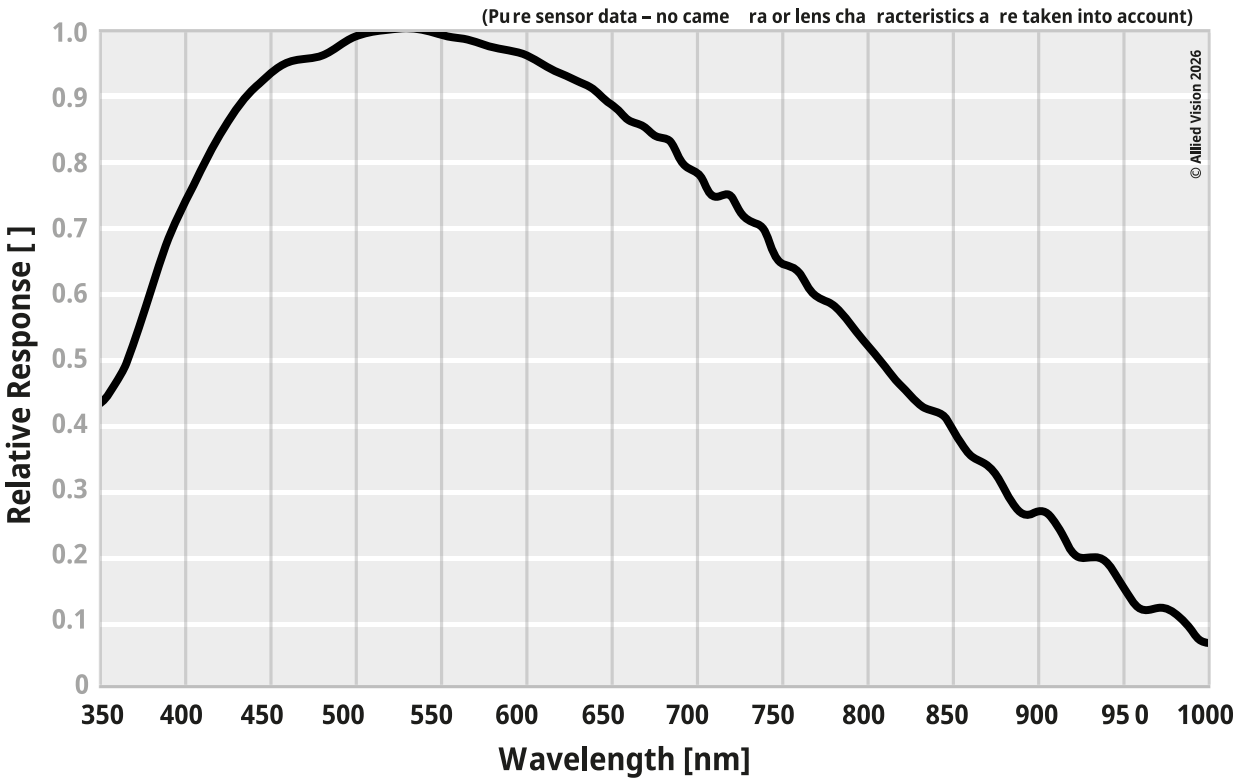
## FW features - image control

| | |
|---|---|
| Exposure modes | auto, external, manual |
| Gain modes | auto, manual |
| Image control features | dpc, ffc, lut, mirror-image, roi, shading-correction |

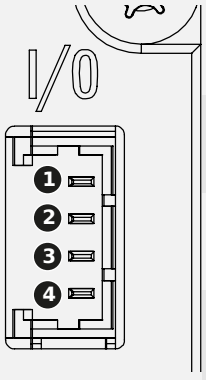
## FW features - camera control

| | |
|---|---|
| Trigger modes/sync | external, internal, software |

## Quantum Efficiency




## I/O pin assignment

| Position | Pin | Signal |
|---|---|---|
|  | 1 | GND |
| | 2 | IO Out (open drain) |
| | 3 | IO In+ (opto In+) |
| | 4 | IO In- (opto In-) |