

# AxCIS MONO

## Contact Image Sensor



### KEY FEATURES

- High speed 120 kHz, high resolution 28 µm or 900 dpi
- No missing or interpolated pixels
- Exposure control
- Mono/HDR mode
- Precalibrated pixel size for metrology applications
- Camera Link HS fibre interface

### PROGRAMMABILITY

- Automatic image alignment with a seamless image output
- Subpixel spatial correction
- 8 or 12 bit output
- Flat field correction
- Programmable coefficient sets

### TYPICAL APPLICATIONS

- Battery inspection
- Print inspection
- Printed circuit boards
- Web inspection
- General purpose machine vision

## High Performance Contact Image Sensor

Based on Teledyne DALSA's industry leading CMOS linescan sensors, the new AxCIS modules offers highly integrated vision solutions at lower system costs for many demanding applications in machine vision. It combines sensors, lenses, and light sources in a compact design with ease of use. AxCIS comes with CLHS Fiberoptic interface, delivering high data throughput, high reliability, and long cable distance over standard fibre optic cables.

### SPECIFICATIONS

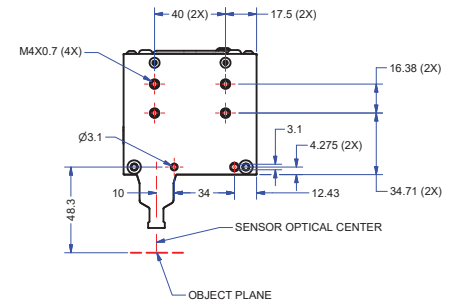
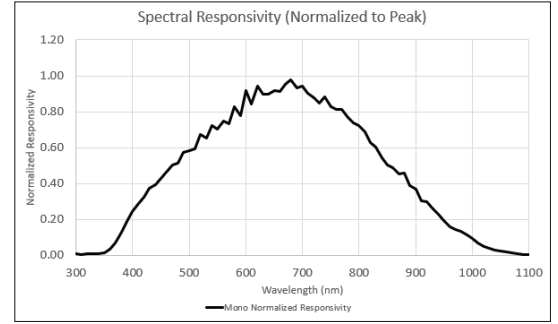
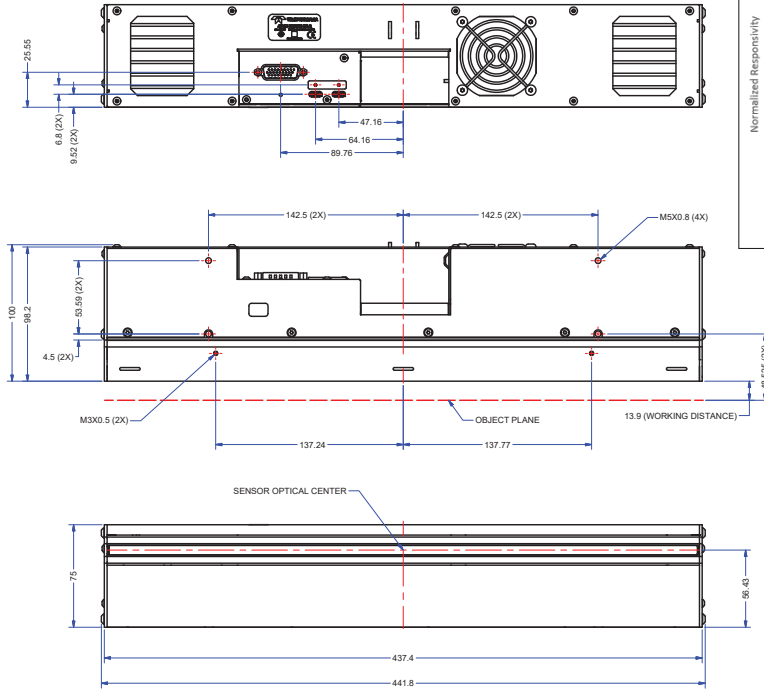
|                         |  |
|-------------------------|--|
| FIELD OF VIEW           | 400/800 mm   |
| DEPTH OF FIELD          | ± 0.6 mm   |
| WORKING DISTANCE        | 13.9 mm  |
| RESOLUTION              | 28/42/56/84 µm (900/600/450/300 dpi) selectable                                  |
| MAX LINE RATE           | 120/60 x 2 kHz (mono/HDR)  |
| OUTPUT                  | Mono/HDR   |
| BIT DEPTH               | 8 or 12 bit selectable   |
| RESPONSIVITY            | See graph  |
| LIGHT SOURCE            | White LED (optional)   |
| DYNAMIC RANGE           | >76 dB   |
| NOMINAL GAIN RANGE      | 1x to 10x  |
| SIZE                    | 441.8 (L) x75 (W) x100 (H) mm (400 mm)<br>841.8 (L) x75 (W) x100 (H) mm (800 mm) |
| DUST INGRESS PROTECTION | IP60 (optical path)  |
| OPERATING TEMP          | 0 to +65 °C (case)   |
| POWER SUPPLY            | +24 VDC  |
| POWER DISSIPATION       | <38 W (400 mm)<br><75.3W (800 mm)  |
| DATA & CONTROL          | Camera Link HS SFP+  |
| GPIO                    | RS422  |
| REGULATORY COMPLIANCE   | CE, FCC, and RoHS  |

### AxCIS MONO MODEL

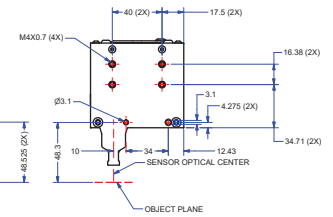
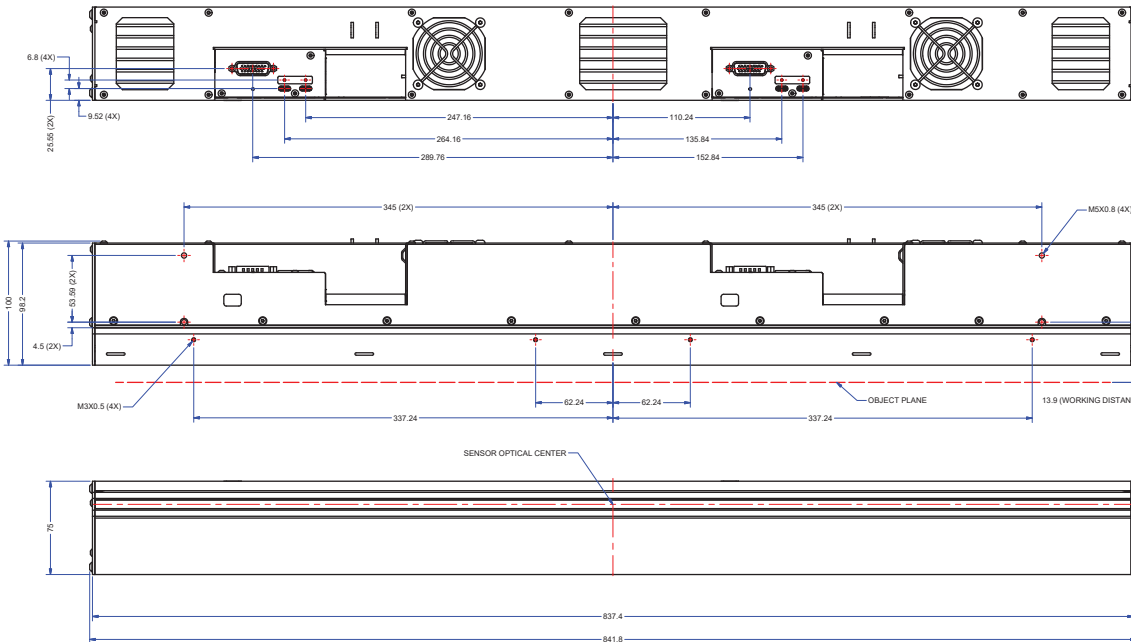
| Part Number     | FOV    | Max. Line Rate | Pixel Size/dpi                          | Output   |
|-----------------|--------|----------------|---|----------|
| AX-FM-04B12H-00 | 400 mm | 120/60 x 2 kHz | 28/42/56/84 µm<br>(900/600/450/300 dpi) | Mono/HDR |
| AX-FM-08B12H-00 | 800 mm | 120/60 x 2 kHz | 28/42/56/84 µm<br>(900/600/450/300 dpi) | Mono/HDR |

**SPECIFICATIONS**

400 mm



800 mm



**FOR MORE INFORMATION CONTACT:**

AMERICAS Boston, USA | +1 978-670-2000 | TDI\_sales.americas@teledynedalsa.com  
 EUROPE Munich, Germany | +49 89-89-54-57-3-80 | TDI\_sales.europe@teledynedalsa.com  
 ASIA PACIFIC Tokyo, Japan | +81 3-5960-6353 | TDI\_sales.asia@teledynedalsa.com  
 Shanghai, China | +86 21-3368-0027 | TDI\_sales.asia@teledynedalsa.com

This document does not contain information whose export/transfer/disclosure is restricted by the Canadian Export Control regulation. Teledyne DALSA has its corporate offices in Waterloo, Canada. Teledyne DALSA reserves the right to make changes at any time without notice. 2024 © Teledyne DALSA.

Revision Number: 03-070-20171  
 Revision Date: 2024 08 15