SMART VISION SENSOR

AMS2X Series
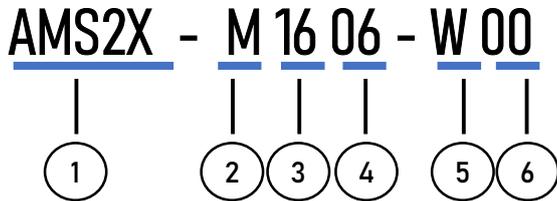
A&M
advance solutions

INTRODUCTION

AMS2X Series, integrated with positioning and algorithm, allows various modes of counting, measurement detection, exitence, and recognition.

Embedded hardware platform for high-speed image proessing, Multiple IOs and indicators, Built-in vision functions such as positioning, measurement, existence, count. Support multiple I/O interfaces and status indicators

Support multiple communication protocols, including Serial, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP
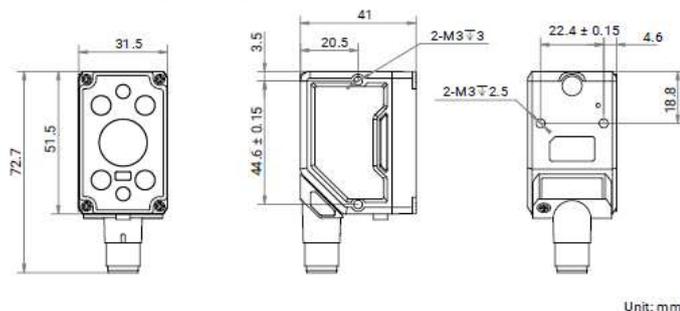
CE   KC

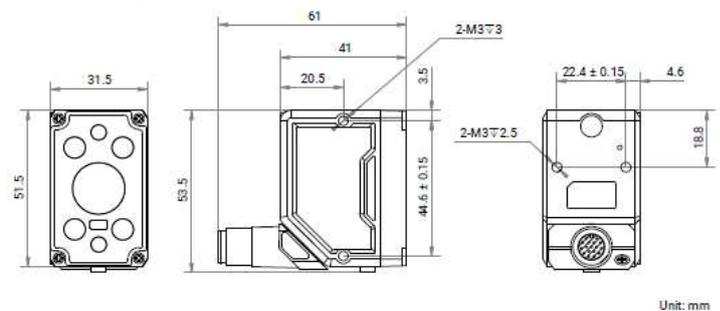## AVAILABLE MODELS

AMS2X - M 16 06 - W 00

(1)   (2)(3)(4)   (5)(6)

(1)	PRODUCT SERIES	AMS2X = AMS2X Smart Vision Sensor Series
(2)	MONO / COLOR	M = Mono, C = Color
(3)	SENSOR RESOLUTION	23 = 2.3MP
(4)	LENS FOCAL LENGTH	05 = 5mm, 12 = 12mm, 16 = 16mm
(5)	BUILT-IN LED LIGHT	W = White
(6)	REMARK	00 = General Model

DIMENSION

Device (Straight Angle)

Device (Right Angle)

Unit: mm

Sensor Characteristic	
Sensor type	CMOS, Global shutter
Pixel size	2.2 μm x 2.2 μm
Sensor size	1/3.52"
Resolution	1,920 x 1,080 pixels
Max frame rate	75 fps
Gain	0 dB to 48 dB
Exposure time	36 μs to 100 ms
Electrical Information	
Data interface	17-pin, M12 connector for Power, Ethernet, Digital I/O, and Serial Port
Ethernet	Fast Ethernet
Digital I/O	Isolated input (Line 0/1) x 2 Isolated output (Line 2/3) x 2 Support device triggering via pressing side button
Power requirement	24 VDC
Power consumption	Max. 12W @ 24VDC (With light source enabled)
Mechanical Information	
Lens Mount	M12-Mount (Mechanical auto-focus)
Focal Length	5mm / 12mm / 16mm (Selectable)
Lens cap	Transparent cap (Polarized cap is optional)
Light source	White LED
Indicator	Power indicator (PWR), network indicator (LNK), result indicator (OK/NG), User-defined Indicator (U1)
Dimension	Straight: 72.7mm x 31.5mm x 41mm Right angle: 51.5mm x 31.5mm x 61mm
Weight	Approx 118 g.
Ingress Protection	IP65 (under proper installation of lens and wiring
Temperature	Working Temp: 0 °C to 50 °C Storage Temp: -30 °C to 70 °C
Humidity	20% to 95% RH, non-condensing
Others	
Client software	SCMVS
Certification	CE, KC
Software	
Vision Tool	Existence: Anomaly judge, Pattern existence, Spot existence, Edge existence, Circle existence, line existence Count: Pattern count, Spot count, Edge count, Contour count, Color count Measurement: P2P, P2L, Contrast, Grayscale Size, Edge width, Width, Brightness average, L2L angle, Diameter, Line angle, Color size Recognition: Category, Classification, OCR, Color contrast, Color recognition Defect detection: Anomaly detection Location: Calibration convert, Single point alignment, point rectify, point grasp, scale transformation, fixture
Solution capacity	Support up to 16 solutions and 40 models
Communication protocol	Serial Port, TCP, UDP, FTP, Profinet, Modbus, Ethernet/IP