

Checker Specifications

CHECKER 4G VISION SENSORS

LIGHTING & FILTER OPTIONS

4G1, 4G7, 4G7S, 4G7X Integrated red, blue, green, and infrared LEDs
Integrated bright white LEDs
Polarization

EXTERNAL TRIGGER INPUT

Input ON > 10VDC (> 6mA)

Input OFF < 2VDC (< 1.5mA)

Protection Opto-isolated, polarity-independent

OUTPUTS

Output Solid state switch

Rating 100mA, 24VDC

Max voltage drop 3.5VDC @ 100mA

Max load 100mA

Protection Opto-isolated, protected from short circuit, overcurrent, and reverse polarity

ENCODER INPUTS

Differential A+/B+: 5-24V (50 kHz max)
A-/B-: Inverted (A+/B+)

Single Ended A+/B+: 5-24V (50 kHz max)
A-/B-: VDC = 1/2 (A+/B+)

JOB CONTROL INPUTS

Jobs supported 32

Input ON > 10VDC (> 6mA)

Input OFF < 2VDC (< 1.5mA)

Protection Opto-isolated, polarity-independent

POWER

Voltage +24VDC (22-26VDC)

Current 250mA max

ENVIRONMENTAL

Operating temperature 0° to 50°C (32° to 122°F)

Storage temperature -30° to 80°C (-22° to 176°F)

Operating humidity 0%-90%, non-condensing

Operating altitude 4000m maximum

Shock 80Gs for 5ms on each axis (per IEC 68-2-2)

Vibration 10Gs (10-500Hz) per IEC 68-2-6

Protection IP67

PLC COMMUNICATION

EIP w/AOP, PROFINET, TCP/IP, UDP/IP

FTP Image

MECHANICAL

Dimensions 2.64in (67mm) H x 1.61in (41mm) W x 2.72in (69mm) D

Weight 148g (4.2oz)

MODES OF OPERATION

Internal part trigger, external part trigger, free running

CERTIFICATIONS

4G Series CE, FCC, RoHS, KCC and CSA

ACQUISITION

4G7, 4G7X Up to 250 fps

4G1 Up to 500 fps

MINIMUM PC REQUIREMENTS

(Only required for setup)

Operating systems XP™, Vista™, Microsoft® Windows 7® 32&64 bit

RAM 128 MB RAM

Interface Ethernet 10/100

(4G Series)

Screen resolution 1024 x 768 (96 DPI) or 1280 x 1024 (120 DPI) display

CHECKER SENSORS

Model Part Number

4G7S C4G7-24S-E00

4G1 C4G1-24G-E00

4G7 C4G7-24G-E00

4G7X C4G7-24X-E00

Note:

The 5.8mm lens ships standard with Checker.

OPTIONAL ACCESSORIES

CKR-4G-CBL-001 Flying lead I/O cable (5m)

CKR-200-CBL-RT-003 Right angle I/O cable (1m)

CCBL-ENET-05 Ethernet Cable(s)

CCB-84901-6001-05 Right angle Ethernet Cable (5m)

C4G-BAK-000 Basic Accessory Kit

CKR-200-LENSKIT Lens Kit

SV-890-000 SensorView 2 Smart Display

Notes:

Basic Accessory Kit includes Quick Start Guide,

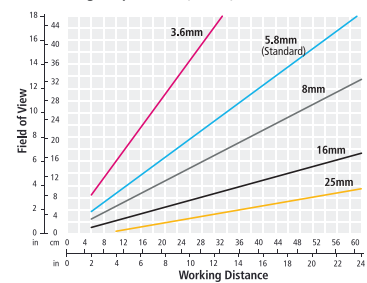
Checker software CD and mounting screws.

The Lens Kit includes 3.6, 8, 16 and 25mm lenses.



Field of View for Checker 4G7 Vision Sensors

Curves show the field of view for standard and optional lenses. Each grid square = 1in (2.54cm)



Field of View for Checker 4G1 Vision Sensors

Curves show the field of view for standard and optional lenses. Each grid square = 1in (2.54cm)

