Data Sheet

Intelligents Sensors
VisionSensor CT 125

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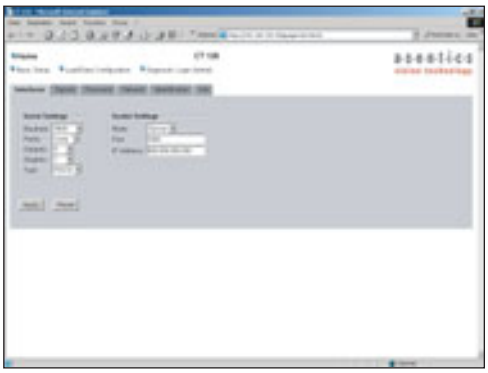
vision technology

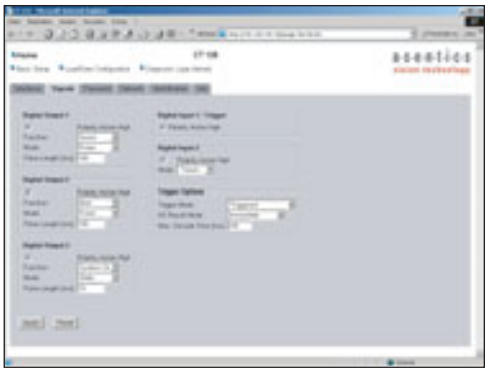
VisionSensor CT 125

The Visionsensor CT 125 is an extremely compact, teach-in sensor for fast and reliable test applications such as in assembly technology, packaging industry or electronic production.



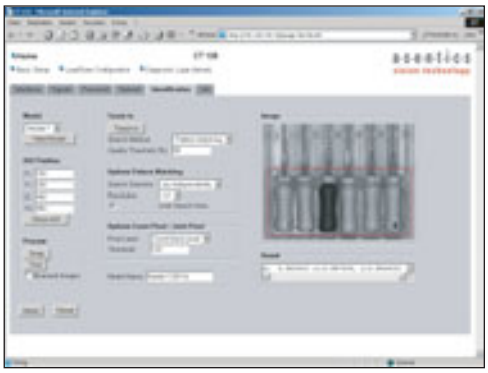
Application examples:

- ► **Presence checks**
- ► **Completeness checks**
- ► **Part identification**
- ► **Status monitoring**

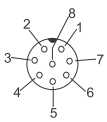


Properties and advantages:

- ► Easy and intuitive teach-in configuration; teach-in and storage of a number of configurations
- ► Various processes selectable (sample comparison, number of pixels, characteristics of contiguous surfaces)
- ► Automatic X/Y position compensation with correlation process
- ► High test rate (up to 20 tests/second)
- ► Checks possible even on rapidly moving test objects (up to 10 m/second)
- ► Sturdy, splash-proof housing
- ► Ethernet connection and web interface for network compatibility
- ► Connection via digital I/O, serial interface (RS232 or 485) and Ethernet
- ► Simple networking of a number of CT 125 visionsensors using standard network components
- ► Convenient configuration with standard web browser (e.g. Microsoft Internet Explorer)
- ► High-speed online video transfer with up to 10 images/second
- ► Remote maintenance and troubleshooting via Internet

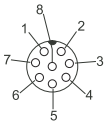


Contact Assignment



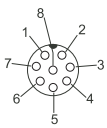
Male M12x1, 8-pin

1 RxD for RS232/ (+) for RS485 interface (data)
2 (+) 24 V DC power supply
3 TxD for RS232/ (-) for RS485 interface (data)
4 Input contact 1 (external triggering)
5 Output contact 1
6 Output contact 2
7 Ground
8 Output contact 3



Female connection M12x1, 8-pin

1 TxD for RS232 interface (configuration)
2 (+) 24 V DC output power supply
3 RxD for RS232 interface (configuration)
4 Output contact 4 (trigger for external illumination)
5 Not used
6 Input contact 2
7 Ground
8 Not used



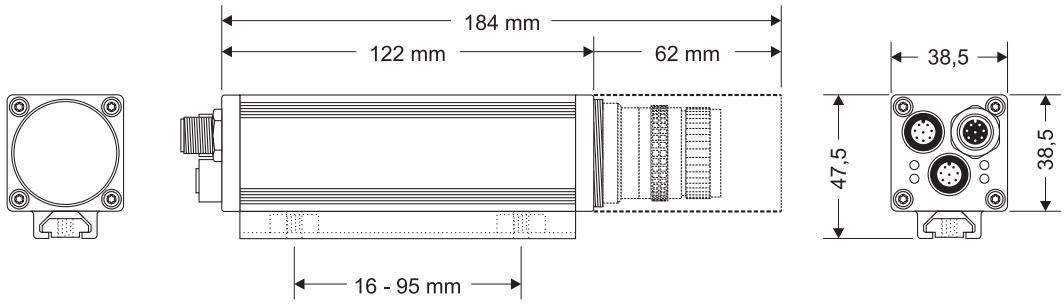
Female connection M12x1, 8pin

1 Not used
2 Not used
3 Not used
4 TxD for Ethernet interface
5 RxD for Ethernet interface
6 TxD for Ethernet interface
7 Not used
8 RxD for Ethernet interface

Technical Data

Model	CT 125
function	learning sensor (teach-in method) for identification applications and presence checks
sensor	CCD matrix (659 x 494 pixels)
digital inputs	2 switched inputs (24 V ± 30 %) of these 1 trigger input for image capture
digital outputs	3 switched outputs (24 V) 1 high-speed trigger output for external illumination
configuration interfaces	RS 232, Ethernet 10Base-T with TCP/IP
data interfaces	RS 232 / RS 485, switchable, Ethernet 10Base-T with TCP/IP
indicators	1 LED "Operation", 3 programmable status LED's
power supply	24 V DC ± 30 %
power consumption	4 W
ingress protection class	IP 65
operating temperature	0° .... + 45 °C
storage temperature	-20 °C ... + 70 °C
humidity	5 ... 95 %, non-condensing
dimensions (L x W x H)	147 x 38.5 x 47.5 mm
weight	290 g
connection	1 male + 2 female connections M12x1 8-pin
housing material	aluminum, silver anodized
mount	2 sliding blocks with M5 female thread M5 (interval variable)
configuration software	suitable for Windows 98, NT 4.0, 2000 and XP or configuration via TCP/IP and standard web browser

Dimensions



Accessories for CT 125

Protection tube for compact lenses

LED Spot light

Rear view

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