Data Sheet

Intelligent Sensors

DataMatrix Codereader BR 525

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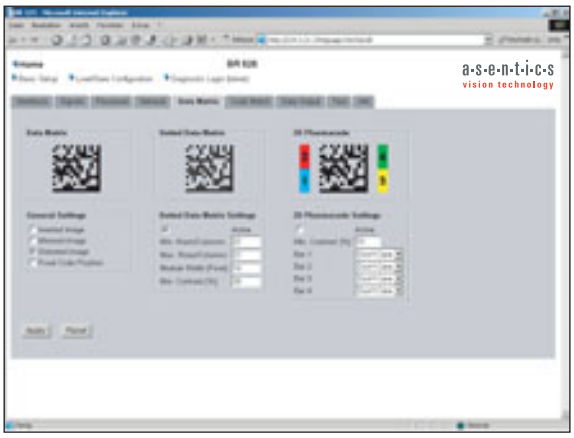
DataMatrix Codereader BR 525

The BR 525 is an ultra-compact, Ethernet-ready codereader for the fast and secure detection of DataMatrix and bar codes. Reading distance and field of view can be adjusted individualy with C-mount interchangeable lenses.

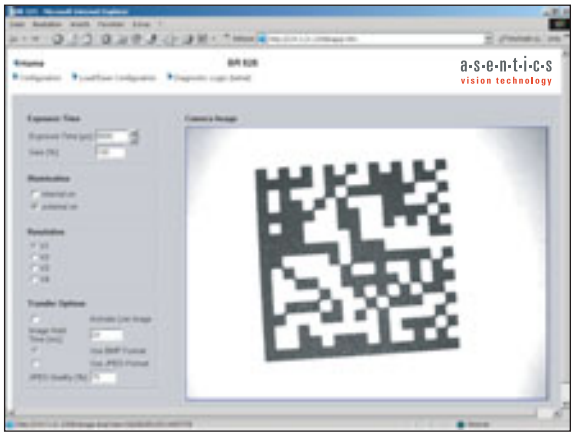


The BR 525 is used for:

- ► **recognising coded electronic components and printed circuit boards**
- ► **identification tasks in assembly lines**
- ► **identifying coded packaging**

its characteristics and benefits:

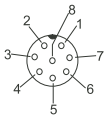
- ► very high reading speed (up to 20 codes/sec)
- ► robust waterproofed housing (IP 65)
- ► can be used flexibly using C-mount interchangeable lenses
- ► omnidirectional decoding of all common 1-D bar codes and 2-D codes
- ► network-compatible with Ethernet connection and web interface possible



The BR 525 can be configured easily and conveniently with the built-in Ethernet interface and a standard web browser. That provides other additional benefits such as:

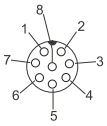
- ► easy, factory wide linking of sensors with standard network components
- ► fast online video transmission of up to 10 frames/sec
- ► remote maintenance and error diagnosis via Internet
- ► easy integration in customized user interfaces

Contact Assignment



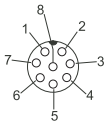
M12x1, male 8-polig

1 R x D of RS232 / (+) for RS485 interface (data)
2 (+) 24 V DC output supply voltage
3 T x D of RS232 / (-) for RS485 interface (data)
4 input contact 1 (external triggering)
5 output contact 1
6 output contact 2
7 GND
8 output contact 3



M12 x 1 female connection, 8-pole

1 T x D of the RS232 interface (configuration)
2 (+) 24 V DC output supply voltage
3 R x D of the RS232 interface (configuration)
4 output contact 4 (trigger for external lighting)
5 reserved
6 input contact 2
7 GND
8 reserved



M12 x 1 female connection, 8-pole

1 not assigned
2 not assigned
3 not assigned
4 T x D - of Ethernet interface
5 R x D + of Ethernet interface
6 T x D + of Ethernet interface
7 not assigned
8 R x D - of Ethernet interface

Accessories for BR 525

Protection tube for compact lenses

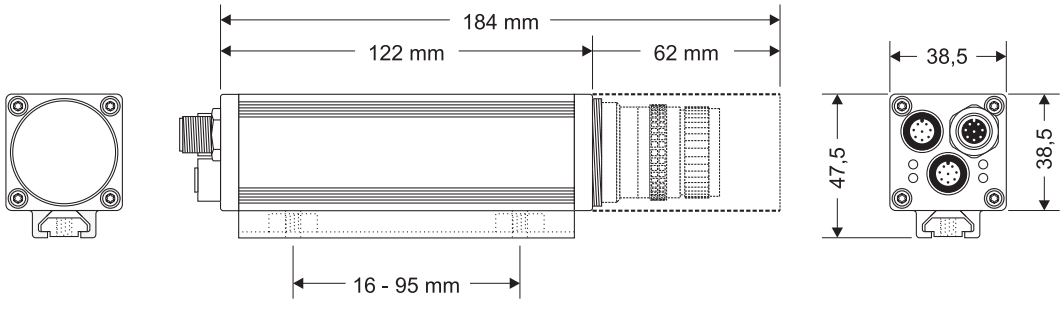
LED spot light

Rear view

Technical Data

model	BR 525
sensor	CCD-Matrix (659 x 494 Pixel)
reading speed	up to 20 Codes/s
lens connection	C-Mount
reading distance	can be selected with C-mount interchangeable lens
field of view	can be selected with C-mount interchangeable lens
depths of focus	depends upon lens
resolution	1/100th of field of view (e.g. 0.20 mm at 20 mm height of field of view)
reading angle	torsional angle 360° (omnidirectional) tilting and inclination angle to 30°
2-D codes	DataMatrix 10 x 10 to 144 x 144 and rectangular codes: 2-D pharmacodes; PDF417 upon request
bar codes	EAN 8/13, UPC-A, UPC-E, Code 128, Code 39, Code 93, Industrial 2/5, Interleaved 2/5, Codabar, Pharmacode (all upon request)
reading modes	continuous or triggered via digital input
digital inputs	2 switching inputs (24 V ± 30%)
digital outputs	2 switching outputs (24 V / 1.5 W), 1 high-speed trigger output for external lighting
configuration interfaces	RS 232, Ethernet 10Base-T with TCP/IP
data interfaces	RS 232 / RS 485 switchable, Ethernet 10Base-T with TCP/IP
display	1 LED for "operation"; 1 LED "trigger"; 2 status LED's
powersupply	24 V DC ± 30%
power input	4 W
ingress protection class	IP 65
operating temperature	0° ... + 45 °C
storage temperature	-20° ... + 70° C
humidity	5%...95%, non-condensing
EMC emmission	according to EN 50081-1
EMC immunity	according to EN 50081-2
dimensions (L x W x H)	184 mm x 38.5 mm x 47.5 mm (including the lens protection tube)
weight	290 g
connection	1 male + 2 female connections M12 x 1 8-pole
housing material	aluminium, silver anodised
fastening	2 sliding blocks with female threads M5 (variable distance)
configuration software	Suitable for Windows 98, NT 4.0, 2000 and XP or configuration via TCP/IP and standard web browser

Dimensions



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