



System solutions  
VMS420/520 / VMS420

VMS420



**Model Name** > **VMS420**  
**Part No.** > **1041964**



The VMS420/520 are ideal when speed and precision are important. They can accurately measure almost all object shapes at up to 3 m/s on flat conveyor belts. The robust two-head volume measurement system is also available in a certified version - the VMS520 conforms with the MID European Measurement Directive, OIML R 129 and additional standards.

#### At a glance

- Measurement of length, width and height of any shaped object
- Calculation of the smallest rectangular box that fully encloses the object (box volume)
- Calculation of real volume
- Optimized application software
- All measuring functions are built in the measuring head, no additional evaluation unit is required

#### Your benefits

- Simple mounting saves time on installation, commissioning, and provides flexibility for different application environments
- Compact design ensures easy integration into new and existing systems
- Low-maintenance system (short MTTR through plug & play unit exchange)
- Tested and certified to OIML, MID and further standards



#### Features

Scanner design:	2-scanner solution
Light source:	Visible red light (650 nm)
Laser class:	2
Field of view:	70 °

#### Performance

Transport speed:	≤3 m/s
Minimum object distance:	25 mm
Detectable object shape:	Almost any, singulated
Minimum object size:	50 mm x 50 mm x 50 mm ( $v \leq 3$ m/s)
Maximum object size:	2,600 mm x 1,000 mm x 1,600 mm
Accuracy of object coverage:	± 5 mm x ± 5 mm x ± 5 mm ( $v \leq 3$ m/s)

#### Interfaces

Serial (RS-232, RS-422):	✓
Ethernet:	-
CAN bus:	-
Profibus:	-
ProfiNet:	-
DeviceNet:	-
Output data:	Maximum dimensions (length, width, height)

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### Mechanics/electronics

Operating voltage:	≤ 24 V DC ± 15 %
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### Ambient data

Object remission:	10 % ... 200 %
Electromagnetic compatibility (EMC):	EN 61000-6-2:2001 / EN 61000-6-4:2001
Vibration resistance:	EN 60068-2-65, -27, -29, -64
Shock resistance:	EN 60068-2-65, -27, -29, -64
Ambient operating temperature:	0 °C ... 40 °C
Storage temperature:	-20 °C ... 70 °C

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