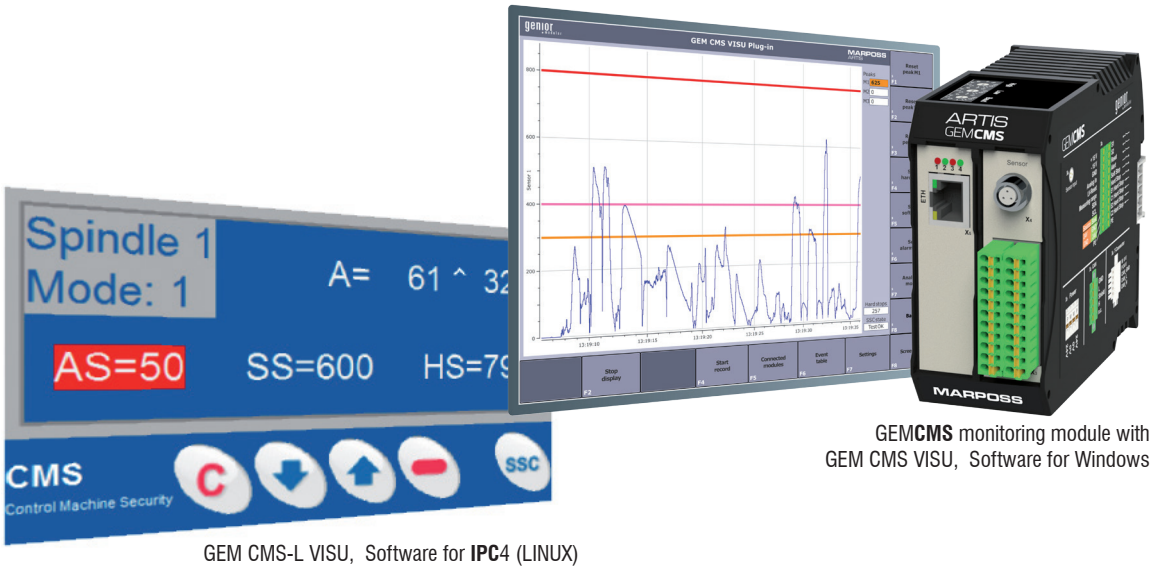
GEMCMS

COLLISION MONITORING AND MACHINE PROTECTION MODULE

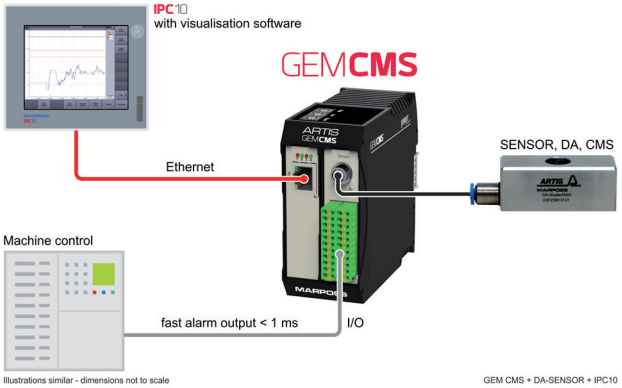


GEM CMS-L VISU, Software for **IPC**4 (LINUX)

GEM**CMS** monitoring module with
GEM CMS VISU, Software for Windows

Application example

Stand-alone operation:
GEM**CMS** is the ideal solution for detecting dynamic and quasi-static collisions. The following application example shows a GEM**CMS** module with GEM CMS VISU software (here via IPC10) and a strain sensor DA (order separately).



For all technical details, please refer to individual sensor data sheets.

Properties

- Collision detection at fast and low feed rate
- Compact control cabinet module with integrated load amplifier
- 25 kHz sampling rate, 16 bit resolution
- Physical I/O-interface (3 inputs – 4 outputs)
- 3 different operation modes with 3 different static limits each
- Fast alarm outputs (< 1 ms)
- Stop event data recording (black box)
- Signal values log file
- Optional: ToolPlus – tool-related limits via Profibus or Profinet

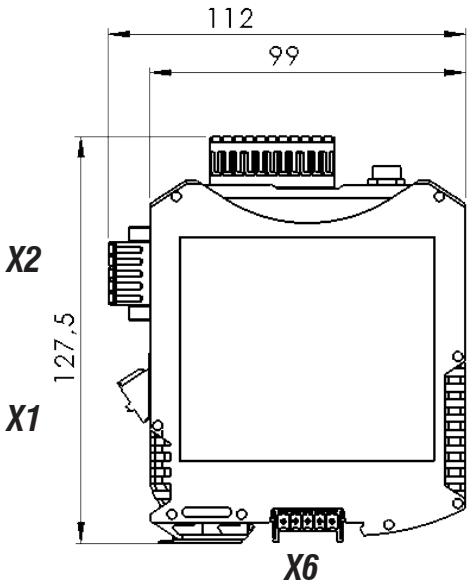
GEM**CMS** can be used as GENIOR MODULAR component via the CAN bus connection:

- Plug-in integrated in MultiView
- Stand-alone functions remain active

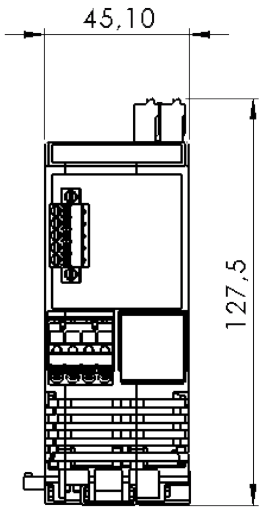
Article number

• GEM**CMS** Monitoring module	0830B230004

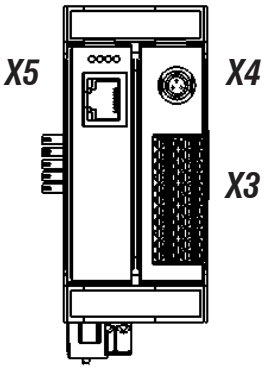
View from the left side



Front view



Top view



GENERAL DATA	
DIMENSIONS	see drawing
STANDARD IP-ADDRESS	192.168.214.84
WEIGHT	0.236 kg
MATERIAL	Polyamide PA 6.6
STORAGE TEMPERATURE	-20 °C ... +60 °C
OPERATING TEMPERATURE	0 °C ... +50 °C
UL-CLASSIFICATION	VO (UL94)
DEGREE OF PROTECTION	IP30
REL. HUMIDITY	5 % ...85 %, no condensation
INSTALLATION	DIN EN 60715 standard mounting rail
CONTACTING	Spring terminals, in-rail bus connector

MEASUREMENT	
MEASURING INPUTS	1 x piezoelectric sensor, pls. order separately
ACCURACY	< 0.5 %
FREQUENCY RANGE	0.4 Hz ... 2 kHz
SAMPLING RATE	25 kHz
RESOLUTION	16 bit

VISUALIZATION	
FOR WINDOWS	GEM CMS VISU Software
FOR **IPC**4 (LINUX)	GEM CMS-L VISU Software
CONFORMITY	CE, UKCA

CONNECTIONS	
CONNECTION X1	24 V DC ±20 %, max. 5 % ripple (via in-rail bus connector)
CABLE CROSS SECTION	0.2 ... 2.5 mm²
NOM. CURRENT CONSUMPTION	max. 200 mA
CONNECTION X2	CAN bus
CABLE CROSS SECTION	0.2 ... 1.5 mm²
CONNECTION X3	Machine and load amplifier interface
CABLE CROSS SECTION	0.2 ... 1.5 mm²
IN-/OUTPUT SIGNALS	3 input signals, 5 output signals
INPUTS	
1-SIGNAL SOURCE	8 V ... 36 V / 5 mA
0-SIGNAL SOURCE	0 V ... 7 V / 5 mA
1-SIGNAL SINK	0 V ... 19 V / 5 mA
0-SIGNAL SINK	20 V ... 36 V /5mA
OUTPUTS	
1-SIGNAL SOURCE	24 V typical, max. 100 mA
0-SIGNAL SOURCE	open
1-SIGNAL SINK	0 V ... 1 V
0-SIGNAL SINK	open
CONNECTION X4	Sensor connection
CONNECTION X5	10/100 base T Ethernet
CONNECTION X6	CAN bus / 24 VDC

OPERATION WITH GENIOR MODULAR	
Interface	CAN bus

For a full list of address locations, please consult the Marposs official website

ODN6422EN17 - *Edition 06/2023 - Specifications are subject to modifications*

Marposs has an integrated system for Company quality, environmental and safety management, with ISO 9001, ISO 14001 and OHSAS 18001 certification.

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