

# camshaft gear 255 C203-EN

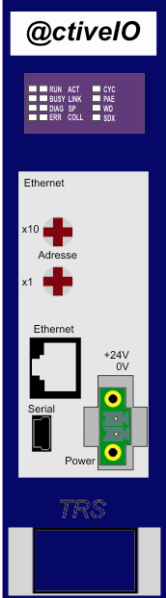
CPU



- Ethernet interface
- Camshaft gear: 255 cam tracks / 1024 cams
- Dead times: 1 for decreasing / 1 for increasing per cam track (individual coordination)
- Resolution: 3600 steps / revolution (1/10°)
- Cycle time 1ms
- @Control

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## Pinout, Display



LED: *) see notes	
RUN	CPU: ok
BUSY	Busy cam FPGA
DIAG	CPU: diagnostic LED
ERR	CPU: Error LED
SDX	CPU: system data transmission @BUS
ACT	Ethernet: Transmit
LINK	Ethernet: link ok
SP	Ethernet: Off: 10Mbit; on:100Mbit
COLL	Busy cam distributor
<b>Rotary switch:</b>	
Hi:	Reserved
Lo:	Reserved
<b>Connectors:</b>	
Ethernet:	RJ45 10/100Mbit
Serial:	Mini USB RS232 Pin 1: RX Pin 2: TX Pin 3: GND
Power:	Phoenix Minicombicon Pin 1: 24 V Pin 2: 0 V

## Attributes

**Cam steering**  
255 cam tracks with dynamic (dead times: 1 for decreasing and 1 for increasing flanks per cam track are possible).

All cam tracks can be distributed multiple on up to 256 outputs without cycle loss.

Programming from up to 1024 cams possible. Single cams and multiple cams are possible at each track.

**Distance-measuring-systems**  
Use any distance- or position-measuring-system with maximum resolution of 32 Bit, intern translation into 3600 steps / revolution.

**Fieldbus-systems**  
Additional Fieldbus-interfaces available, serial interfaces: RS232, optional RS485\*  
Rotary switch for fieldbus-address.

**Handling**  
Parameter setting supported from @ctiveIO-Toolkit via serial interface or ethernet.  
Firmware update trough ftp via ethernet.

\*) on request

## Electrical Data

Power supply external.....	+24V= ± 20%, see notes
Operating Current .....	90mA at +24V
Protection .....	30V overvoltage, surge
Interfaces .....	RS232, 10/100Mbit Ethernet

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## System Information

System ID .....	0x3271
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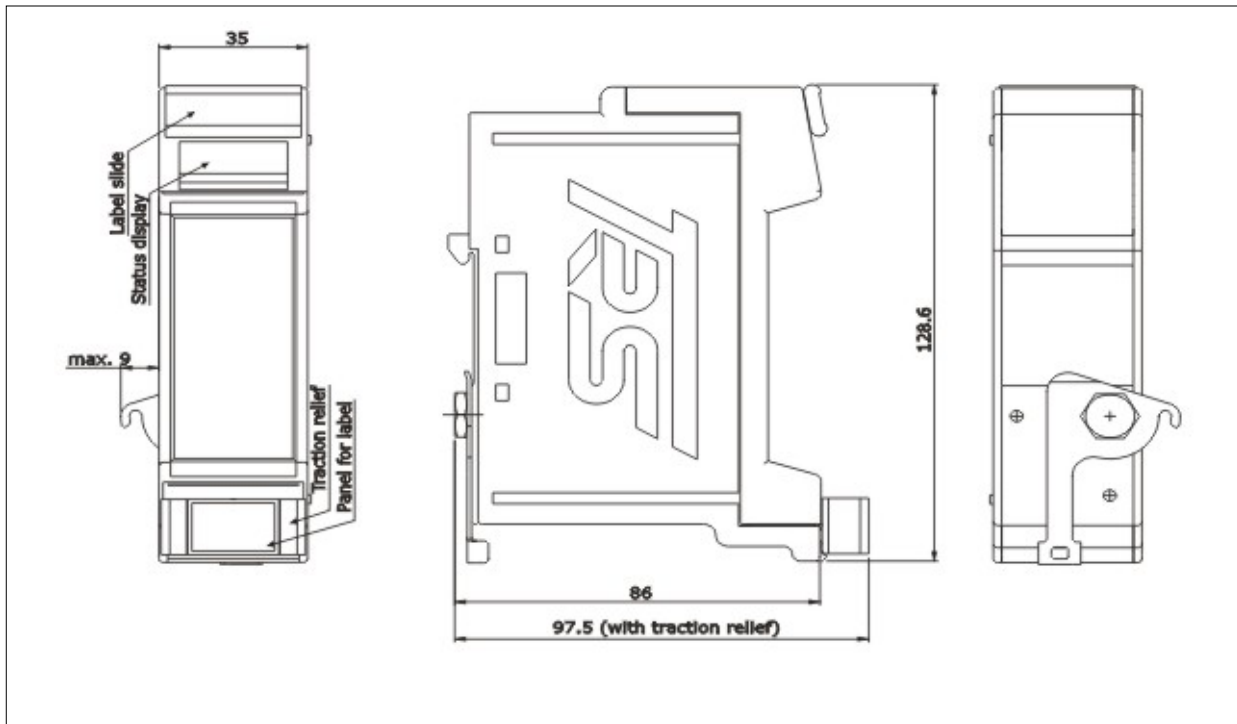
## Environmental Conditions

EMC .....	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating temperature [°C] .....	0 .. +50
Storage temperature [°C] .....	-20 .. +70
Humidity (rel) .....	98 % (non condensing)
* Protection class .....	IP 20 (DIN 40 050)
* The protection class is valid only with housing and connector installed	

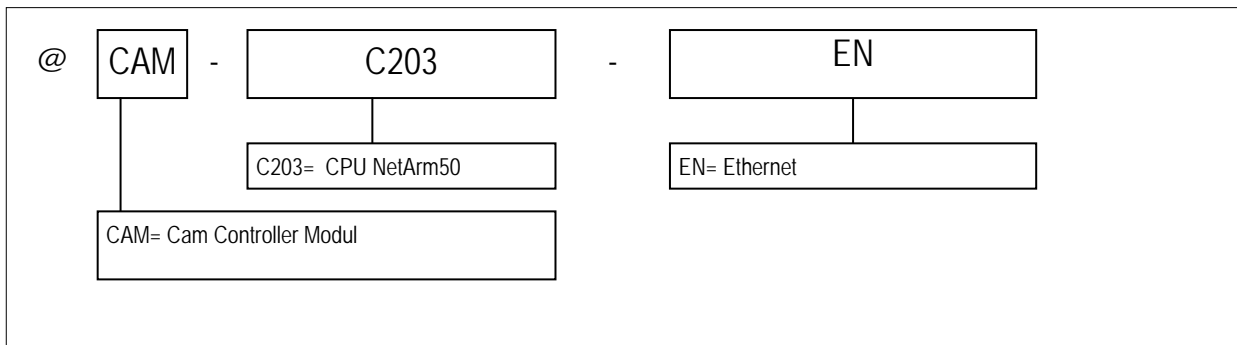
## Mechanical Data

Weight .....	approx. 0.28 kg including connector
Dimension .....	105 x 80 mm

## Drawing (effective if mounted in @M housing)



## Ordering Key



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**notes:**

**Description of the LEDs:**

LED	Status	Description
RUN	ON	CPU is running
BUSY	ON	Calculation of cam tracks in process (FPGA)
DIAG	ON	Diagnostic information available: Warning / Error
ERR	ON	Error on fieldbus, no diagnostic information available
	Flashing	Error (see diagnostic information)
SDX	ON	Data on @Bus
ACT		Datatransfer on network
LINK	ON	Network connected
SP	ON	Netspeed 100Mbit
COLL	ON	Cam distributor active (FPGA)

**Special operating modes (DIAG and ERR LED):**

**ftp server active:**                   DIAG and ERR in alternating blink mode  
**System init in progress:**       DIAG and ERR in concurrent blink mode

**Caution:**

If using interface moduls of type @5xxx power 0V of the controller has to be directly connected with power 0V of the @5xxx-modul and power 0V of the interface partner of the @5xxx-modul.

**Revision change**

Version	Description	Date (m/y)
00	Serie 0	11/03
01	Added: Data of the module are changed	10/06
02	Added: BUSY LED, description of COLL LED changed	11/06