Declaration of Conformity
and
CE-Identifier

for the following products of digital cam switches

CamCon

Types

CamCon DC16
CamCon DC33
CamCon DC40
CamCon DC50
CamCon DC51
CamCon DC60
CamCon DC61
CamCon DC70
CamCon DC71
CamCon DC90
CamCon DC115
CamCon DC300
CamCon 1756-DICAM

Additional Components :
CamCon DC16 IO
CamCon DAC16
CamCon D AWA
CamCon D CD10
CamCon D CT10
DigiWEB 2

Manufacturer

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Executive Directors: Udo Senf, Bernd Aichele
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Product description for digital cam gears:

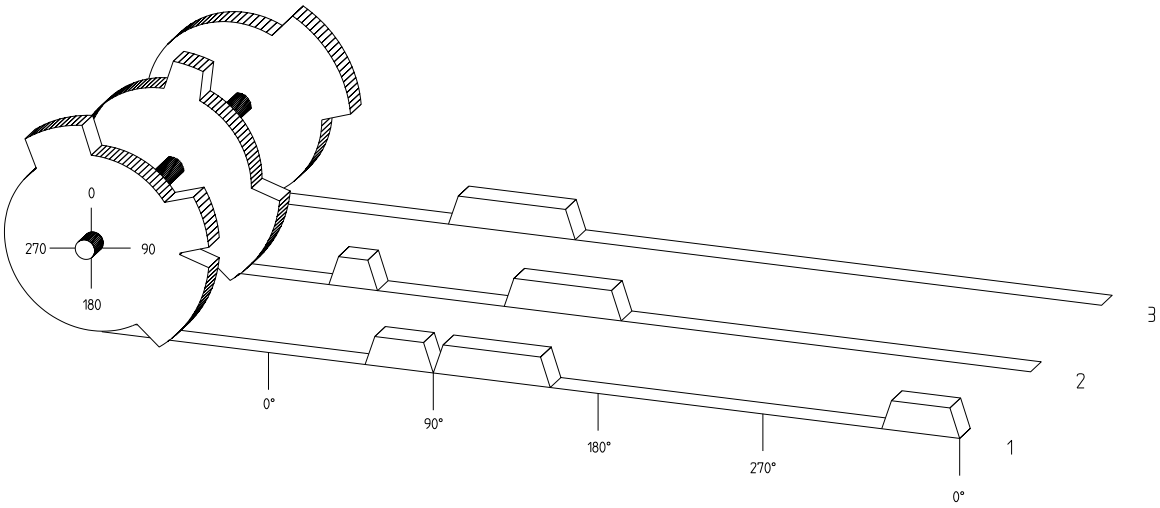


Figure: Schematic view of a mechanical cam switch unit

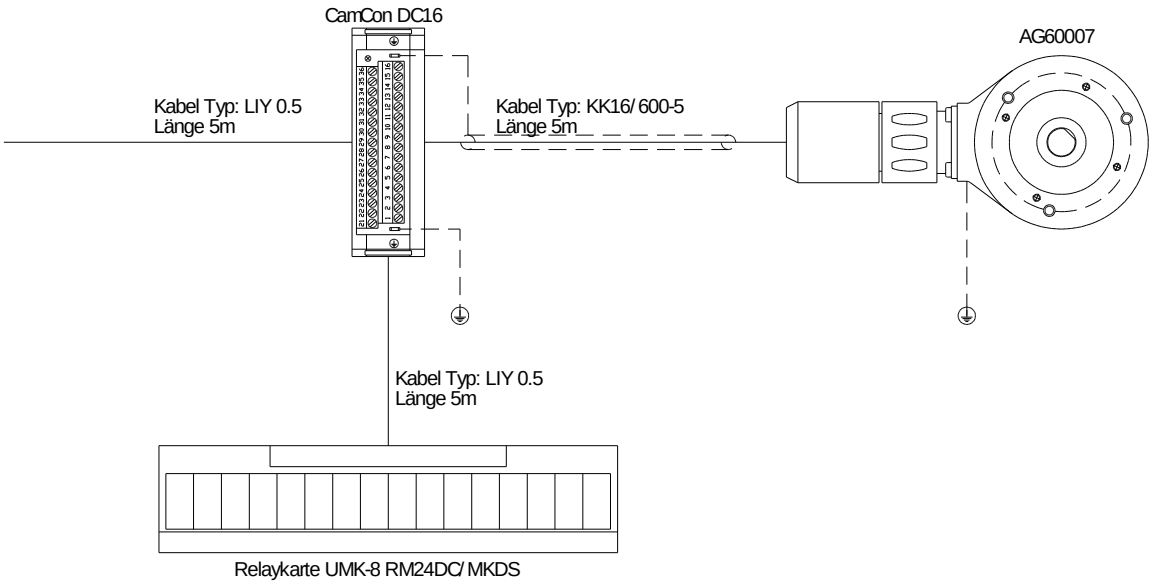
Output 1:	Cam1:	Activation point	60°	Deactivation point	85°
	Cam 2:	Activation point	95°	Deactivation point	145°
	Cam 3:	Activation point	325°	Deactivation point	355°
Output 2:	Cam1:	Activation point	5°	Deactivation point	20°
	Cam 2:	Activation point	95°	Deactivation point	145°
Output 3:	Cam1:	Activation point	30°	Deactivation point	85°

The 3 as beds presented progressions of the output signals occur, if the 3 cam plates turn anticlockwise past a sensor, which scans the cams on the 0° axis.

The duration of the activation of a mechanical cam switch unit, i.e. the range between the on and off position, is determined by the length of the cams. The length and the position of the cams can only be limitedly varied, which additionally demands a relatively high mechanical and chronological expenditure. With the CamCon, these adjustments are realisable in a fraction of a second, besides the number of the cams per bed is optional. A measuring system, which has been connected to the device reports the position to the CamCon. The CamCon compares this with the programmed on and off positions from all the outputs. If a position appears in a range of a programmed on / off position (cams), all affected outputs will be switched.

CE-Identifier DC16

Cam switches of the “CamCon series” are not independently operable devices. They are easily influenced by external wiring in terms of electromagnetic compatibility.
CamCon was tested in terms of EMC and CE marking in a standard environment.

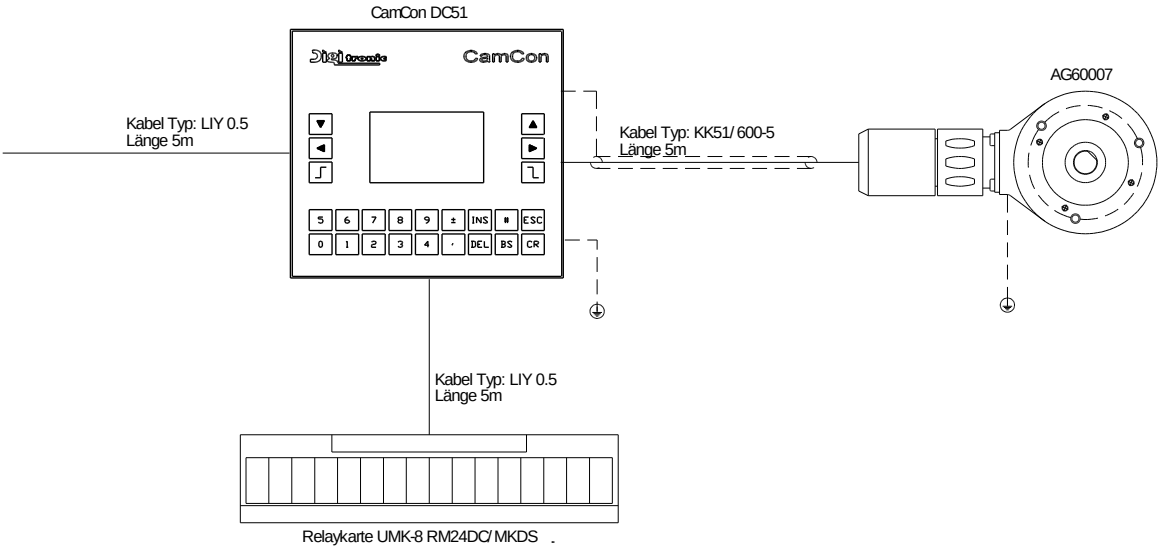


ill: Diagram of the measured environment for electronic cam controllers of the “CamCon series”.

Cam switch :	Type: CamCon		Order number:	e.g. DC16S5M..
Angle encoder :	Type: AG60007		Order number: Supplier: Manufacturer:	AAG60007 Digitronic GmbH Sick/Stegmann GmbH
Connection cable for angle encoders:	Type: KK16/600-5	length 5m	Order number: Supplier: Manufacturer: Processing:	KK16/600-5 Digitronic GmbH Ernst+Engbring GmbH&Co.KG Digitronic GmbH
Additional connection cable:	Type: LIY 0.5	length 5m	Order number: Supplier: Manufacturer:	92 F 566 Bürklin GmbH&Co.KG unknown
Relay card for the wiring of the outputs:	Type: UMK-8 RM24DC/MKDS		Order number: Supplier: Manufacturer:	29 72916 Phoenix AG Phoenix AG

CE-Identifier DC51

Cam switches of the “CamCon series” are not independently operable devices. They are easily influenced by external wiring in terms of electromagnetic compatibility.
CamCon was tested in terms of EMC and CE marking in a standard environment.

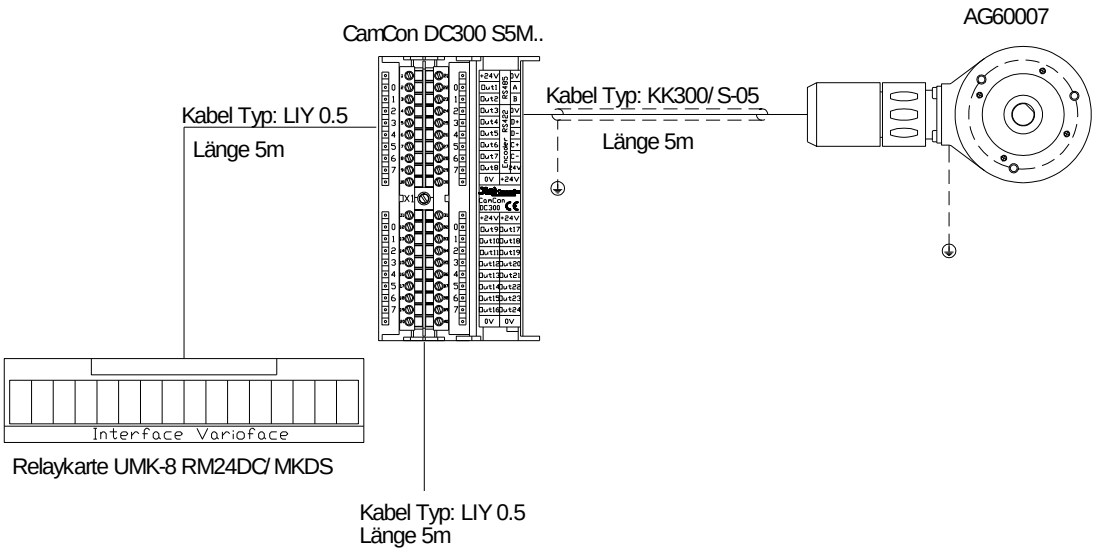


ill: Diagram of the measured environment for electronic cam controllers of the “CamCon series”.

Cam switch :	Type: CamCon		Order number: e.g. DC51/S5M24..
Angle encoder :	Type: AG60007		Order number: AAG60007 Supplier: Digitronic GmbH Manufacturer: Sick/Stegmann GmbH
Connection cable for angle encoders:	Type: KK51/600-5	length 5m	Order number: KK51/600-5 Supplier: Digitronic GmbH Manufacturer: Ernst+Engbring GmbH&Co.KG Processing: Digitronic GmbH
Additional connection cable:	Type: LIY 0.5	length 5m	Order number: 92 F 566 Supplier: Bürklin GmbH&Co.KG Manufacturer: unknown
Relay card for the wiring of the outputs:	Type: UMK-8 RM24DC/MKDS		Order number: 29 72916 Supplier: Phoenix AG Manufacturer: PhoenixAG

CE-Identifier DC300

Cam switches of the “CamCon series” are not independently operable devices. They are easily influenced by external wiring in terms of electromagnetic compatibility.
CamCon was tested in terms of EMC and CE marking in a standard environment.



ill: Diagram of the measured environment for electronic cam controllers of the “CamCon series”.

Cam switch :	Type: CamCon		Order number:	e.g. DC300/S5M..
Angle encoder :	Type: AG60007		Order number: Supplier: Manufacturer:	AAG60007 Digitronic GmbH Sick/Stegmann GmbH
Connection cable for angle encoders:	Type: KK300/S-05	length 5m	Order number: Supplier: Manufacturer: Processing:	KK300/S-05 Digitronic GmbH Ernst+Engbring GmbH&Co.KG Digitronic GmbH
Additional connection cable:	Type: LIY 0.5	length 5m	Order number: Supplier: Manufacturer:	92 F 566 Bürklin GmbH&Co.KG unknown
Relay card for the wiring of the outputs:	Type: UMK-8 RM24DC/MKDS		Order number: Supplier: Manufacturer:	29 72916 Phoenix AG Phoenix AG

Tests

Testing was carried out essentially according to the following standards:

DIN EN 61000-6-2 VDE 0839-6-2:2011-6

DIN EN 61000-4-2 VDE 0847-4-2:2009-12

DIN EN 61000-4-3 VDE 0847-4-3:2011-4

DIN EN 61000-4-4 VDE 0847-4-4:2013-4

DIN EN 61000-4-5 VDE 0847-4-5:2019-03

DIN EN 61000-4-6 VDE 0847-4-6:2014-08

DIN EN 55011 (VDE 0875-11):2018-05

DIN EN 55032 (VDE 0878-32):2016-02 + Berichtigung 1:2019-02

The CE marking was applied in 2003 and supplemented in 2019.

Wallbach, 18.7.2019

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