

# 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

Digitronic Automationsanlagen GmbH  
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AG Wiesbaden HRB 18877

## Product description for digital cam gears:

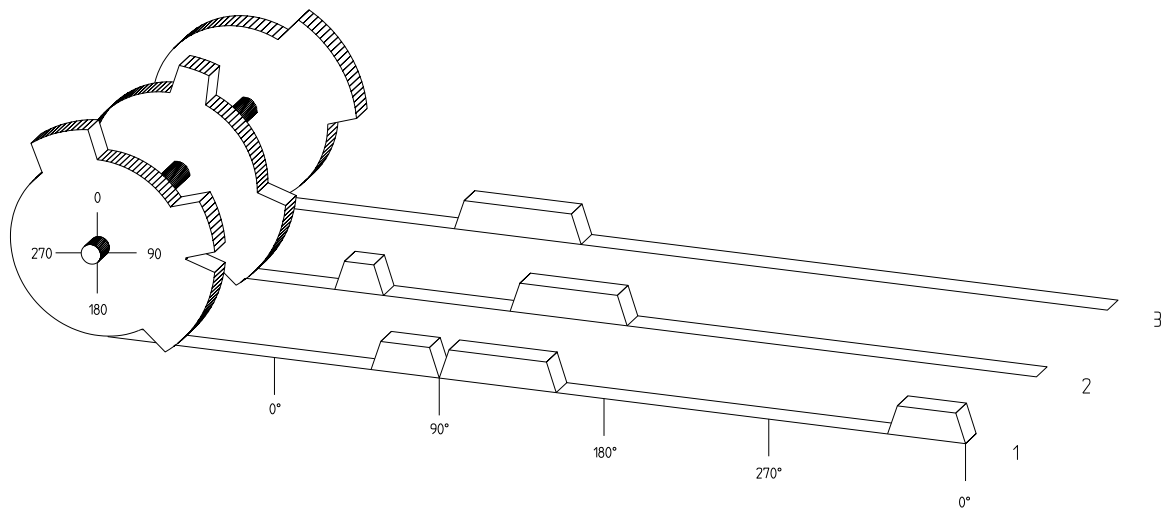


Figure: Schematic view of a mechanical cam switch unit

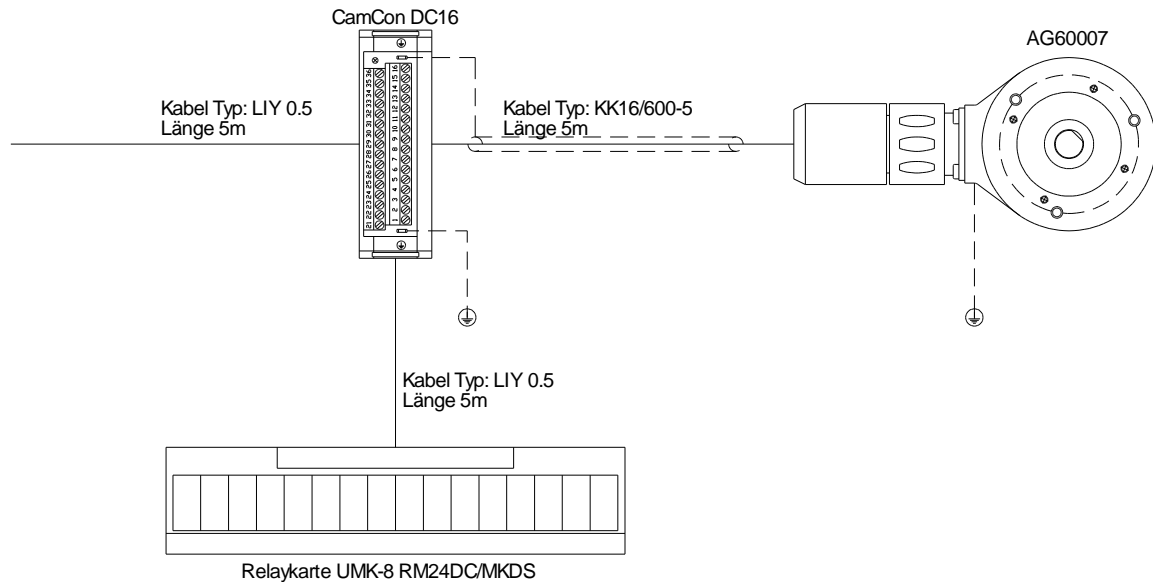
Output 1:	Cam1:	Activation point	60°	Deactivation point	85°
	Cam 2:	Activation point	95°	Deactivation point	145°
	Cam 3:	Activation point	325°	Deactivation point	355°
Output 2:	Cam1:	Activation point	5°	Deactivation point	20°
	Cam 2:	Activation point	95°	Deactivation point	145°
Output 3:	Cam1:	Activation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

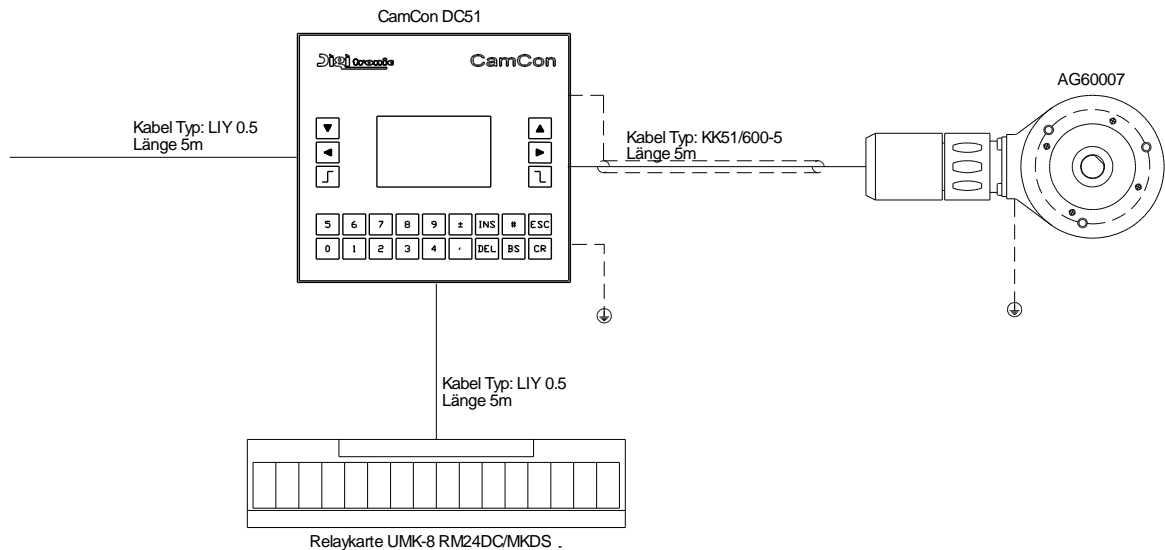


III: Diagram of the measured environment for electronic cam controllers of the “CamCon series”.

Cam switch	:	Type: CamCon	Order number: e.g. DC16S5M..
Angle encoder	:	Type: AG60007	Order number: AAG60007 Supplier: Digitronic GmbH Manufacturer: Sick/Stegmann GmbH
Connection cable for angle encoders:	:	Type: KK16/600-5 length 5m	Order number: KK16/600-5 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: 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.

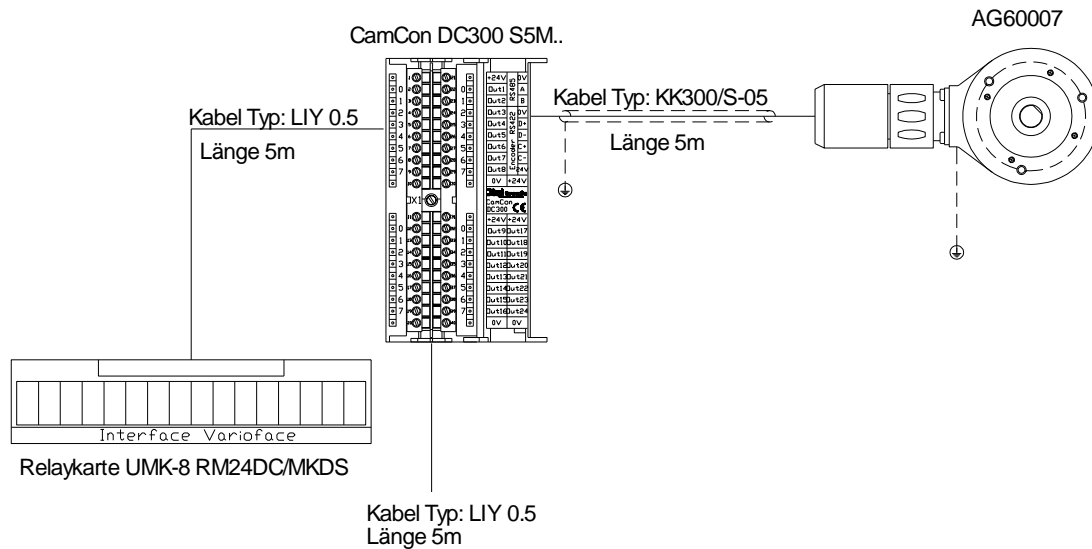


iii: Diagram of the measured environment for electronic cam controllers of the "CamCon series".

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.



iii: 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: AAG60007 Supplier: Digitronic GmbH Manufacturer: Sick/Stegmann GmbH
Connection cable for angle encoders:	:	Type: KK300/S-05	length 5m	Order number: KK300/S-05 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: Phoenix AG

## Tests

were focused mainly on:

### Radio interference voltage

On network or supply lines

EN 55011  
VDE 0875 part 11

### Interference emission

In distance of 10 m in the open air

VDE 0871  
VDE 0877 part 2  
VDE 0875 part 3 ("N")  
EN 55011  
EN 55022

### Radiated immunity

High-frequency radiation

IEC 801 part 3  
ENV 50140

### Susceptibility to ESD

Static discharge resistance

IEC 801 part 2  
VDE 0843 part 2  
EN 55024 part 2

### Transient overvoltage on power lines

Burst asymmetrically unbalanced

IEC 801 part 4  
VDE 0843 part 4

### Surge

IEC 801 part 5

Wallbach, dated



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Udo Senf (Managing Director)