



LIGHT CAM® COMPACT

GEARED CAM LIMIT SWITCHES





DECADES OF EXPERIENCE

Across Industries and Applications



Founded in 1932, Stromag™ has grown to become a globally recognized leader in the development and manufacture of innovative power transmission components for industrial drivetrain applications.

Stromag engineers utilize the latest design technologies and materials to provide creative, energy-efficient solutions that meet their customer's most challenging requirements.

Stromag's extensive product range includes flexible couplings, disc brakes, limit switches, an array of hydraulically, pneumatically, and electrically actuated brakes, and a complete line of electric, hydraulic and pneumatic clutches.

Stromag engineered solutions improve drivetrain performance in a variety of key markets including energy, off-highway, metals, marine, transportation, printing, textiles, and material handling on applications such as wind turbines, conveyor systems, rolling mills, agriculture and construction machinery, municipal vehicles, forklifts, cranes, presses, deck winches, diesel engines, gensets and stage machinery.

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Catalog Light Cam® Compact: VII

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GEARED CAM LIMIT SWITCHES

AT A GLANCE



STROMAG LIGHT CAM[®] COMPACT

BENEFITS INCLUDE

- Form fit gear
- Self looking design for the cam discs
- High gear ratio 74 for adjusting the cams
- Very small dimensions

Series Light Cam® Compact – Basic Limit Switch

Revision number: 3.1.7.1-01

Revision date: 14.02.2022

Features

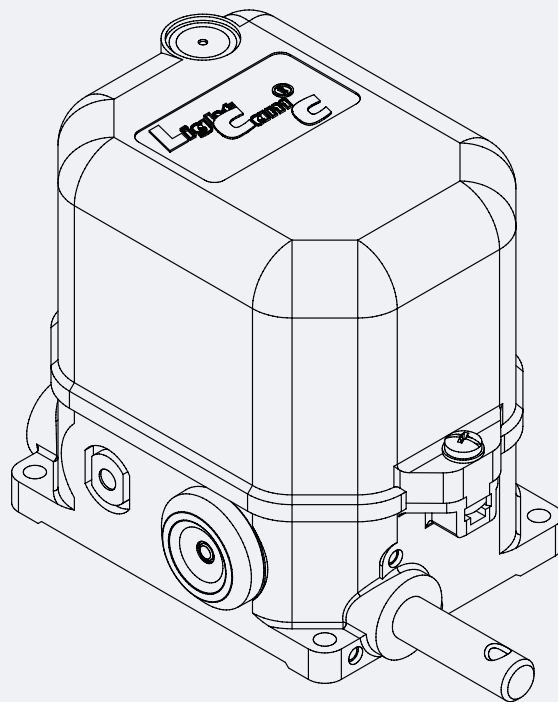
- Very small dimensions
- Combined worm / spur gear
- 2 or 4 switching contacts available

Application

- Crane & Hoists
- Stage

Additional information

- PBT synthetic housing, IP66
- Ambient temperature -25° ... +60°C



GEARED CAM LIMIT SWITCHES

Compact Worm Gear Limit Switches

Series Light Cam® Compact – Gear Data

Revision number: 3.1.7.2-01

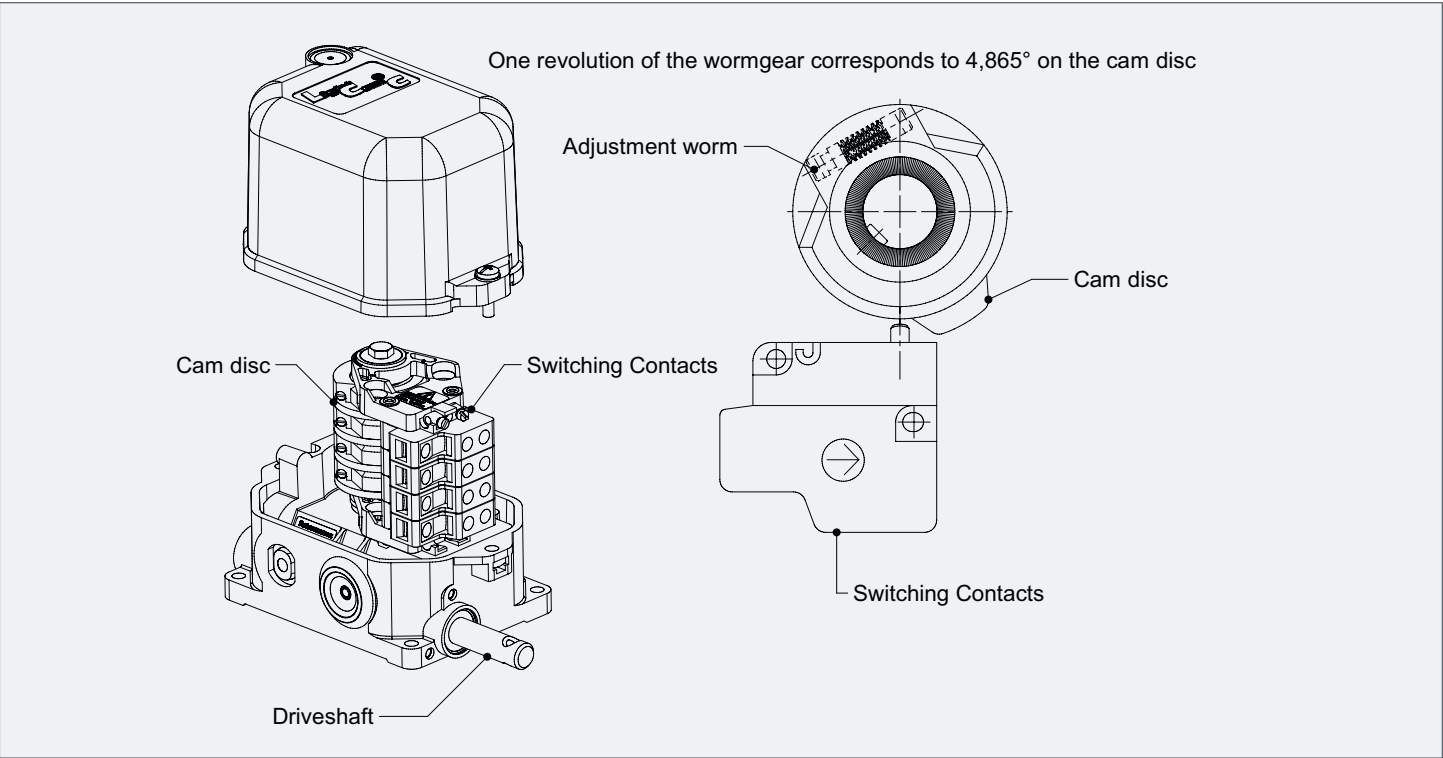
Revision date: 25.06.2024

Features

- Cam discs with fine adjustment and cam diameter of 42,5 mm
- Form fit gear design

Additional information

- Self-locking design for the cam discs
- Very precise adjustment via a self-locking adjusting worm with a high reduction ratio of 74:1



| Gear table LCC | | | | | | | | | |
|--|-------|--------------------------------------|---------------------------------------|---|----------|------------------|------------------|---|--|
| Nominal revolutions at 40° - cam disc | Ratio | Usable revolutions on drive shaft | Overrun revolutions on drive shaft | Switch back revolutions on drive shaft (average value) | | max. drive speed | min. drive speed | min. drive torque for switching 1 switch | max. drive torque for direct opening action 1 switch |
| | | | | 98, 98G | 99A, 99T | | | | |
| [-] | [i] | [U] | [U] | [U] | [U] | [U/min] | [U/min] | [Nm] | [Nm] |
| 44 | 50,0 | 44,4 | 5,5 | 0,5 | 0,4 | 400 | 2,4 | < 0,2 | > 0,3 |
| 88 | 100,0 | 88,8 | 11,1 | 0,8 | 0,4 | | 4,9 | | |
| 132 | 150,0 | 133,3 | 16,6 | 0,9 | 0,4 | | 7,3 | | |
| 220 | 250,0 | 222,2 | 27,7 | 1,2 | 0,5 | | 12,2 | | |

Series Light Cam® Compact – Switching Contacts

Revision number: 3.1.7.3-01

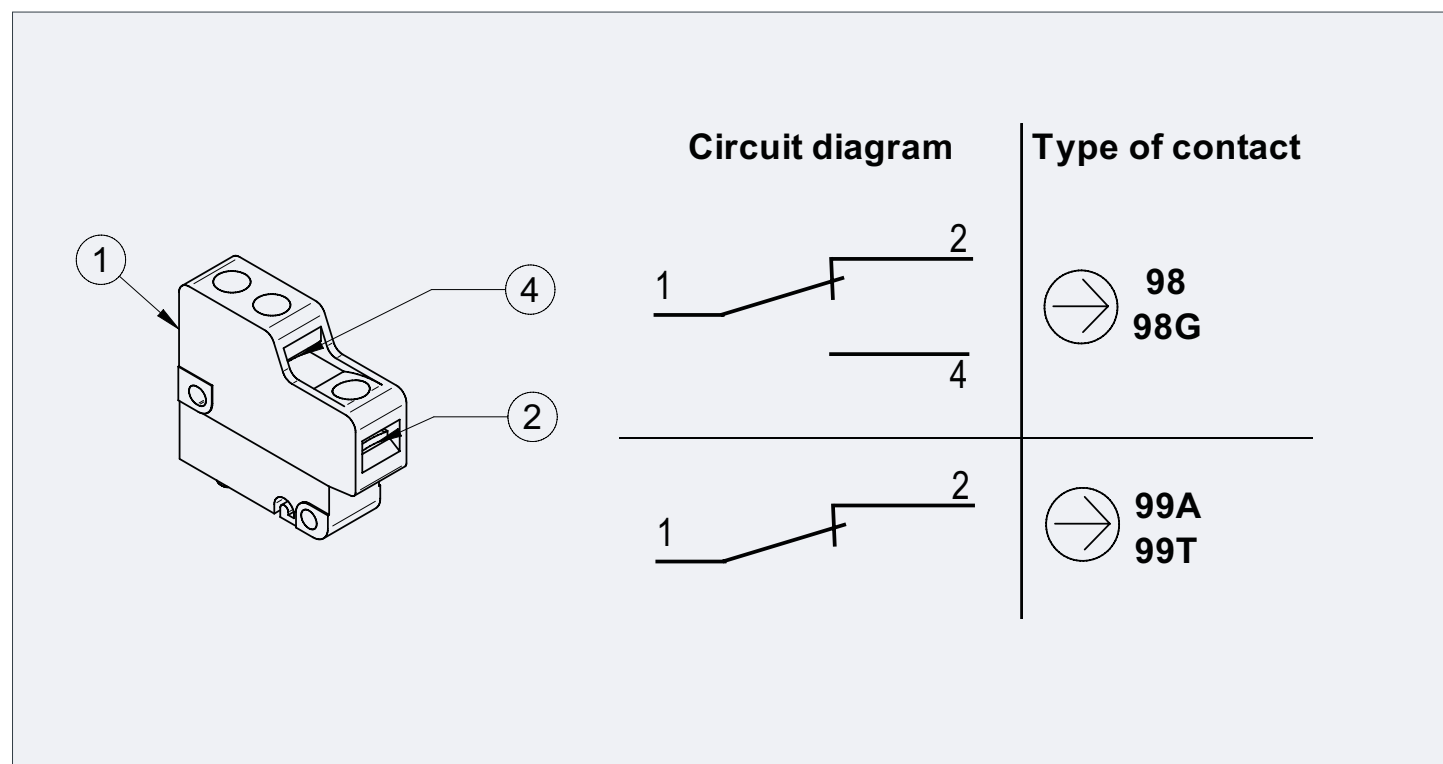
Revision date: 25.06.2024

Features

- Switching contacts with positive opening
- For up to 1 million mechanical switching operations
- Push or snap action switching contacts
- Screw connection

Application

- Silver switching contacts for relays
- Corrosion-free, gold-plated switching contacts with low contact resistances for smaller switching loads on request



| Switching contact | | | Contact material | | Switching system | | Connection | Functionality | | Electrical data | | |
|-------------------|-----------------------|----------------------|------------------|------------------------|--------------------|--------------------|--|---|--------------------------|---|--|---|
| Designation | Change-Over (NC / NO) | Normally closed (NC) | Silver | Gold (PLC-Ap-lication) | Snap-action switch | Push-action switch | screw terminals; 0,5 - 1,5 mm² / AWG 22 ... 16 | Direct opening acc. to EN 60947-5-1 Annex K | Short circuit protection | Ratings acc. to IEC 60947 | Conventional thermal current I _{th} | Rated Insulation Voltage U _i |
| 98 | • | | • | | • | | • | • | 10A gG | AC-15: 1,5A, 230V DC-13: 0,5A, 60V DC-13: 2,0A, 24V | 6A | 250V |
| 98G | • | | | • | • | | • | • | 2A gR | | | |
| 99T | | • | • | | | • | • | • | 10A gG | | | |
| 99A | | • | | • | | • | • | • | 2A gG | | | |

= applicable

Series Light Cam® Compact – Customizable Cam Discs

Revision number: 3.1.75-01

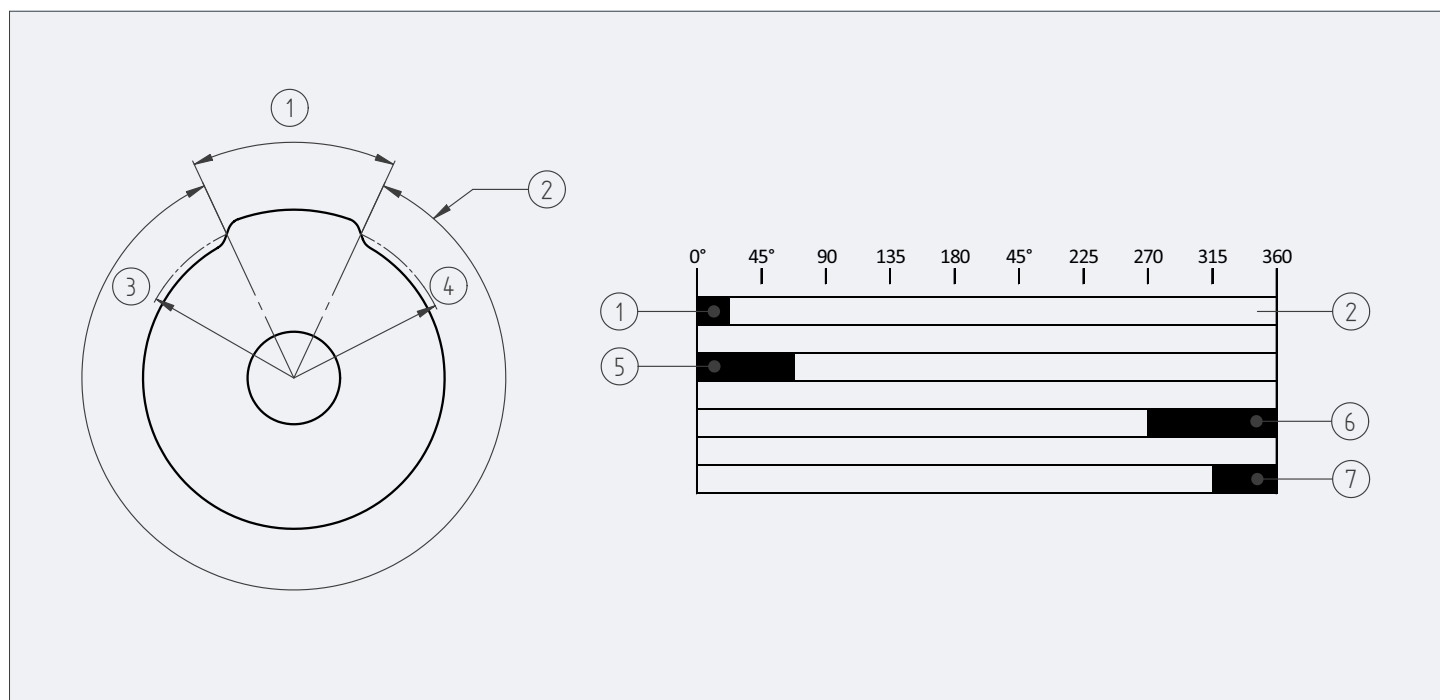
Revision date: 14.02.2022

Features

- 40 degree standard cam discs
- 15 and 60 degree cam discs free of charge on request
- Other cam angles on request against surcharge

Application

- For different switching programs cam discs with customized angles can be manufactured



- | | |
|---|--|
| 1 | Effective cam angle α [°] (=castor angle) |
| 2 | Effective cam angle β [°] |
| 3 | Switching point radius |
| 4 | Reset point radius |

- | | |
|---|-------------------------|
| 1 | Effective cam angle 15° |
| 5 | Effective cam angle 60° |
| 6 | Effective cam angle 90° |
| 7 | Effective cam angle 45° |

The cam discs are named after the effective cam angle. For cam discs of series Light Cam® Compact, this corresponds to the switching point angle on the switching point radius of the cam disc.

Standard cam angle for series Light Cam® Compact is 40°.

Any cam angles (15° up to 345°) can be supplied as a special design upon request.

The usable revolutions enabled by a cam disc on a Geared Cam Limit Switch drive shaft, result in the following:

$$U = i \cdot \frac{\beta^\circ}{360^\circ} = i \cdot \frac{(360^\circ - \alpha^\circ)}{360^\circ} = i \cdot \left(1 - \frac{\alpha^\circ}{360^\circ}\right)$$

U = Usable revolutions

α = Effective cam angle [°]

β = Usable cam angle ($\beta = 360^\circ - \alpha$) [°]

i = gear ratio see gear table

GEARED CAM LIMIT SWITCHES

Compact Worm Gear Limit Switches

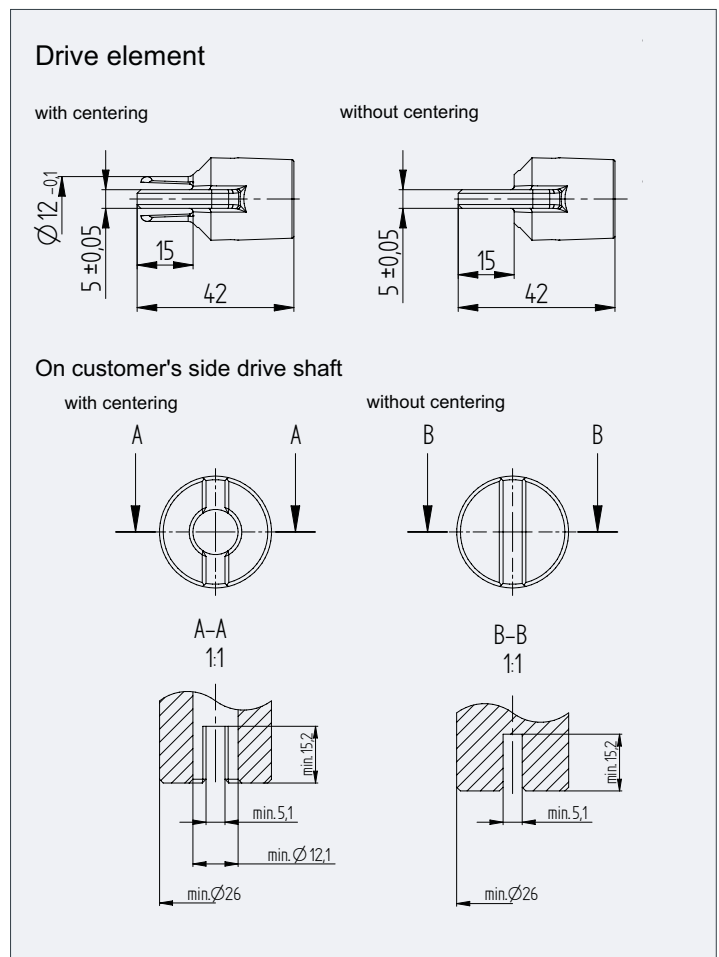
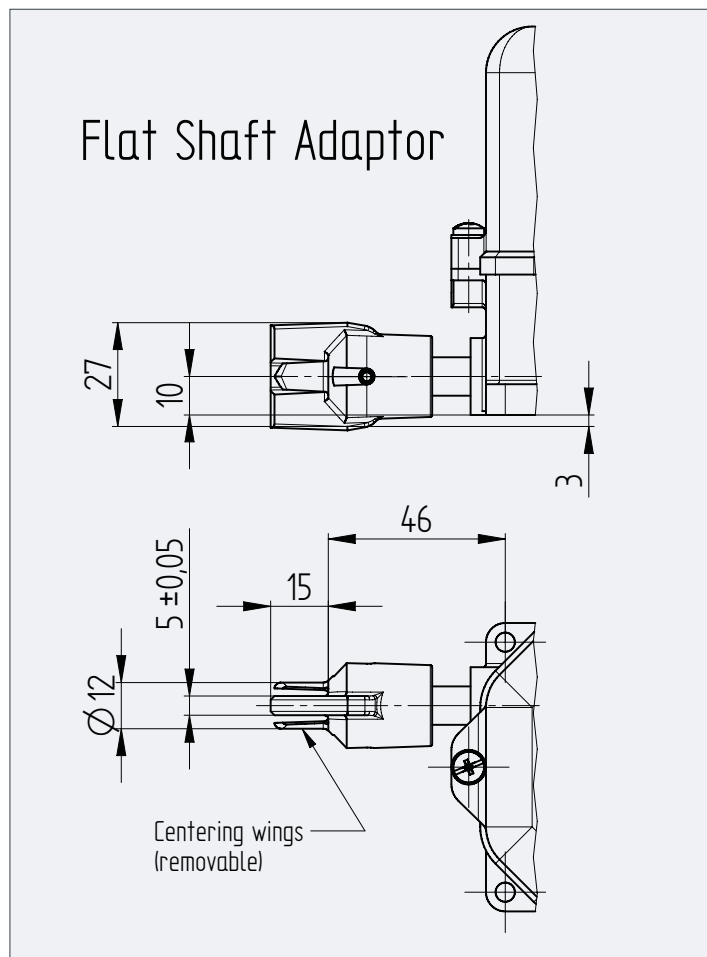
Series Light Cam® Compact – Drive Elements

Revision number: 3.1.7.6-01

Revision date: 14.02.2022

Features

- Simple connection to the machine shaft via the flat shaft adaptor

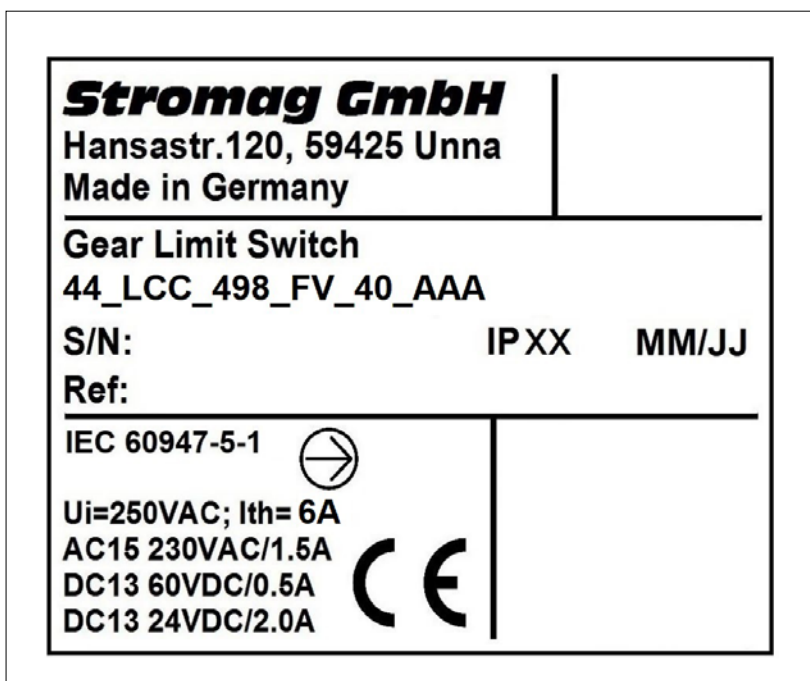


| General data | | |
|--|---------|--------------------|
| Specification | Value | Remark |
| Weight | 0,009kg | |
| Material | PA6 | Synthetic material |
| Assembly Precision: Avoid misalignment between the driving shaft of the machine and the drive element of the product. | | |

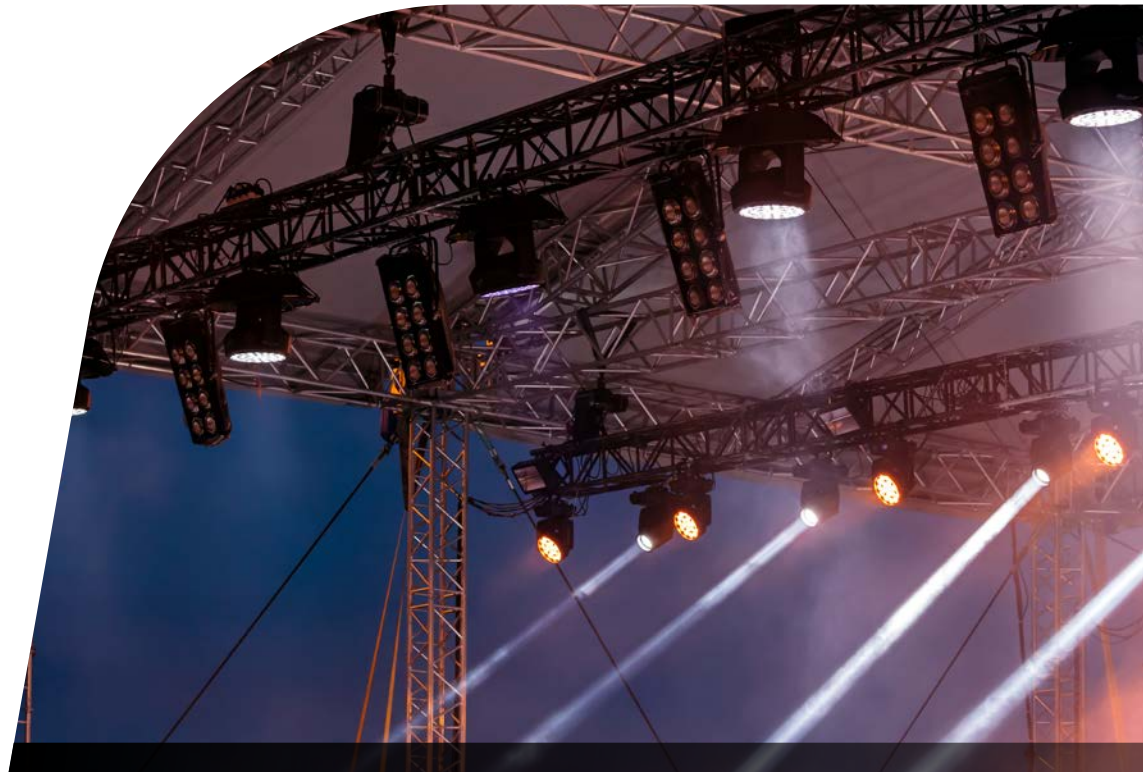
Series Light Cam® Compact – LCC

Revision number: 3.1.7.7-02

Revision date: 25.06.2024



| | | |
|------------|---------------------------------|---|
| 44 | Nominal revolutions | See gear table |
| LCC | Series | Gear Limit Switch LCC |
| 4 | Quantity of switches | 2 or 4 |
| 98 | Type of switches | See available switches |
| FV | Type of cam discs | Precise adjustable |
| 40 | Effective cam angle [°] | all cam discs X customized, see sales text |
| A | Design | A with feet (B3) X customized, see sales text & additional data sheet |
| A | Cable entry / connection option | A sealing grommet Ø 6...13 mm B cable gland Ø 4...14 mm X customized, see sales text & additional data sheet |
| A | Drive option | A cross hole Ø 4H12 B drive element Flat Shaft Adaptor X customized, see sales text & additional data sheet |
| | Additional option | X customized, see sales text & additional data sheet |



Stromag™

stromag.com

Germany

Hansatraße 120

59425 Unna - Germany

+49 2303 102 - 0

regalrexnord.com

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