# **STROMAG**<sup>®</sup>

### PRODUCT CATALOG



## **LIGHT CAM® COMPACT** GEARED CAM LIMIT SWITCHES



![](_page_0_Picture_5.jpeg)

![](_page_1_Picture_0.jpeg)

![](_page_1_Picture_1.jpeg)

# Stop seeing individual parts. Start seeing unlimited possibilities.

Regardless of your objectives or the challenges with your application, Powertrain Solutions can help you achieve your unique goals. No matter what your application looks like, it relies on many components, all working together. But not all components are made to work together reliably and efficiently. Powertrain Solutions has the insight, experience and expertise to engineer your collection of components into a fully optimized system — giving you solutions that boost efficiency, improve reliability and performance, lower costs and simplify ordering and logistics.

#### WHERE OTHERS SEE PARTS, WE SEE A SYSTEM

![](_page_1_Figure_5.jpeg)

Bearings

![](_page_1_Picture_6.jpeg)

Belt & Chain Drives

![](_page_1_Picture_8.jpeg)

![](_page_1_Picture_9.jpeg)

Disc & Gear

Couplings

![](_page_1_Picture_11.jpeg)

![](_page_1_Picture_12.jpeg)

![](_page_1_Picture_13.jpeg)

![](_page_1_Picture_14.jpeg)

Speed Reducers & Gearboxes

Monitoring & Diagnostics

It's time to see the bigger picture. Get started at RegalRexnord.com/Powertrain

## CONTENT

#### Catalog Light Cam<sup>®</sup>Compact: VII

At a Glance				
Light Cam® Compact – Basic Design	5			
Light Cam® Compact – Gear Data	6			
Light Cam® Compact – Available Switches	7			
Light Cam <sup>®</sup> Compact, AAA	8			
Customizable Cam Discs	9			
Option: Drive element	10			
Key Of Types	11			

## **Stromag Geared Cam Limit Switches**

#### AT A GLANCE

![](_page_3_Picture_2.jpeg)

## STROMAG LIGHT CAM<sup>®</sup> 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<sup>®</sup> 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

![](_page_4_Picture_15.jpeg)

## Series Light Cam<sup>®</sup> 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 selflocking adjusting worm with a high reduction ratio of 74:1

![](_page_5_Figure_8.jpeg)

ninal revolutions 0° - cam disc	٥	ble revolutions drive shaft	rrun revolutionson e shaft	Switch back revolutions on drive shaft (average value)		. drive speed	, drive speed	. drive torque for ching 1 switch	. drive torque for ct opening action vitch
Non at 40	Rati	Usa on c	Ove driv	98, 98G	99A, 99T	max	min	min swit	max dire 1 sv
[-]	[i]	[U]	[U]	[U]	[U]	[U/min]	[U/min]	[Nm]	[Nm]
44	50,0	44,4	5,5	0,5	0,4		2,4		
88	100,0	88,8	11,1	0,8	0,4	400	4,9	.00	. 0.2
132	150,0	133,3	16,6	0,9	0,4	400	7,3	< 0,2	> 0,3
220	250,0	222,2	27,7	1,2	0,5		12,2		

## Series Light Cam<sup>®</sup> Compact – Switching Contacts

#### Revision number: 3.1.7.3-01

#### Revision date: 25.06.2024

• Silver switching contacts for relays

• Corrosion-free, gold-plated switching

contacts with low contact resistances

for smaller switching loads on request

Application

#### Features

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

# Circuit diagramType of contact129898G98G212121222122212239A99T

Sv	vitching cont	act	Contact	material	Switchin	g system	Connection	Functio	onality	Ĩ	Electrical data	а	
Designation	Change-Over (NC / NO)	Normally closed (NC)	Silver	Gold (PLC-Ap- plication)	Snap-action switch	Push-action switch	screw termi- nals; 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 Ith	Rated Insula- tion Voltage Ui	
98	•		•		•		•	•	10A gG	AC-15:			
98G	•			•	•		•	•	2A gR	- 1,5A, 230V - DC-13: 0,5A, 60V	230V DC-13: 6A 0,5A, 60V	6A 250	250\/
99T		•	•			•	•	•	10A gG				2500
99A		•		•		•	•	•	2A gG	2,0A, 24V			
= applicable													

# Series Light Cam<sup>®</sup> Compact – XXX\_ LCC\_XXX\_AAA

![](_page_7_Figure_3.jpeg)

## Series Light Cam<sup>®</sup> Compact – Customizable Cam Discs

#### Revision number: 3.1.7.5-01

#### 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

![](_page_8_Figure_12.jpeg)

	5-1-1		
3	Switching point radius	6	Effective cam angle 90°
4	Reset point radius	7	Effective cam angle 45°

The cam discs are named after the effective cam angle. For cam discs of series Light Cam<sup>®</sup> 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:

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

- U = Usable revolutions
- α = Effective cam angle [°]
- $\beta$  = Usable cam angle ( $\beta$  = 360°  $\alpha$ ) [°]
- i = gear ratio see gear table

## Series Light Cam<sup>®</sup> 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

![](_page_9_Figure_7.jpeg)

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

![](_page_9_Figure_9.jpeg)

## Series Light Cam<sup>®</sup> Compact – LCC

Revision number: 3.1.7.7-02

Revision date: 25.06.2024

<b>Stromag GmbH</b> Hansastr.120, 59425 Unna Made in Germany				
Gear Limit Swit	ch / 40 AA	Δ		
S/N:	•_+•_^	IPXX	MM/JJ	
Ref:				
IEC 60947-5-1	$\rightarrow$			
Ui=250VAC; Ith= 6	Ă			
AC15 230VAC/1.5A				
DC13 60VDC/0.5A				

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 agle [°]	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 613 mm B cable gland Ø 414 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
	Addtional option	X customized, see sales text & additional data sheet

![](_page_11_Picture_0.jpeg)

#### **Regal Rexnord**

regalrexnord.com Stromag GmbH Hansatraße 120 59425 Unna - Germany +49 2303 102 - 0

Stromag.com

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <a href="https://www.regalrexnord.com/Application-Considerations">https://www.regalrexnord.com/Application-Considerations</a>.

To view our Standard Terms and Conditions of Sale, please visit https://www.regalrexnord.com/Terms-and-Conditions-of-Sale.

"Regal Rexnord" is not indicative of legal entity. Refer to product purchase documentation for the applicable legal entity. Regal Rexnord and Stromag GmbH are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2024 Regal Rexnord Corporation, All Rights Reserved. MCC-P-8682-SG US 07/24

## fra Regal Rexnord