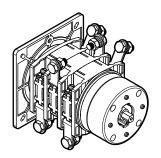
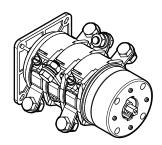


Strawinskylaan 1105 1077 XX Amsterdam, The Netherlands instruction manual





G125...B G200...B

PHOENIX CAM SWITCHES WITH TYPE "B" BASE **MOUNTING (125 A / 200 A)**

CODE READING	2
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Before use, read this booklet carefully to acquaint yourself with the features of the product. This booklet is an integral part of the product and therefore must be kept until the product is dismissed.



Giovenzana International B.V. reserves the right to change the features and data shown in this document at any time and without notice. This document cannot therefore be considered a contract with third parties.



G series cam switches are designed and manufactured according to IEC international standard and EN European regulations.



Any improper installation or any tampering of the device may cause serious personnel injury or property damage, therefore, the installation and maintenance must be performed by specialized and authorized personnel.



The use of this device is not allowed in environment with a potentially explosive atmosphere or in presence of corrosive substances and in salt spray.



ATTENTION

Before any installation or maintenance operation, disconnect the power supply to the system. Before restoring the power supply, make sure that all connections to the device have been made correctly. Giovenzana International B.V. disclaims any responsibility for any damage to things and people caused by non-compliance with the rules described here.

Cam switches involved in this instruction manual:

Series	Mounting	Terminal protection class	AC-21A (690 V)	AC-23A (415 V)
G125B	Base	IP00	125 A	78 A
G200B	base	11 00	200 A	95 A

Read the page with the code reading for further useful information on the product in your possession. This instruction manual illustrates features and procedures relating to the products in the Giovenzana catalog. The specifications on p.2 and the mounting instructions on p.8, and following, are also valid for custom products derived from one of the series illustrated in this manual.

Series Specifications: p.2 CODE READING Cam switch mounting type Overall dimensions: p.4

0002 2 poles0003 3 poles0004 4 poles0006 6 poles

ON-OFF switches 0-1

Actuator code

base mounting

Each cam switch series can be fitted with one or more actuators with their own code.

This document provides the installation instructions for each cam switch series and its matching actuators.

Actuators reference table: p.17

custom product (these products have their own electrical scheme, not available in this document)

SPECIFICATIONS

General characteristics				
Protection class	control	EN 60529	IP65	
	terminals		IP00	
Material group		EN 60947-1	IIIA	
Pollution grade		EN 60947-1	3	
Flammability		UL94	V0 (live electrical parts)	
Ambient temperature	operating storage		-15 +55°C -25 +70°C	
Connections	terminal bolt		G125 M8 G200 M10	
Contacts			double breaking	
Opening angles			60° - 90°	
Mechanical lifetime	@ 120 operations / hour		0.1 million cycles	
Electrical lifetime	@ 120 operations / hour		0.01 million cycles	

EN 60947-3 characteristics

G125 125 A, IP00 contacts

G200 200 A, IP00 contacts

		G125	G200
Rated operating voltage	Ue	690 V	690 V
Rated insulation voltage	Ui	690 V	690 V
Rated impulse withstand voltage (sectionable)	Uimp	6 kV	6 kV
Rated thermal current	lth	150 A	225 A
Rated enclosed thermal current	Ithe	150 A	225 A
Frequency		50/60 Hz	50/60 Hz

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Rated op	erating current	le		G125	G200
AC-21A	Switching of resis		690 V	125 A	200 A
AC-22A	•	ed resistive and inductive noderate overloads	690 V	125 A	200 A
AC-23A	Switching of	1 phase - 1 pole	110 V	-	-
motor loads		230 V	-	-	
	or other highly inductive loads	3 phases - 3 poles	230 V	140 A 45 kW	169 A 55 kW
	inductive loads		415 V	78 A 45 kW	95 A 55 kW
			500 V	65 A 45 kW	79 A 55 kW
			690 V	47 A 45 kW	57 A 55 kW
AC-3	Squirrel-cage	3 phases - 3 poles	230 V	115 A 37 kW	140 A 45 kW
	motors: starting,		415 V	64 A 37 kW	78 A 45 kW
	switches off		500 V	53 A 37 kW	64 A 45 kW
	motors during running time		690 V	39 A 37 kW	47 A 45 kW

Short circuit characteristics

		G125	G200
Conditional rated short circuit withstand current		20 kA	20 kA
Fuse rating (type gG/Gm)	690 V	125 A	200 A

UL 508 characteristics

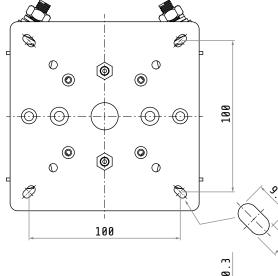
			G125	G200
General use		600 V AC	125 A	175 A
Standard motor load	3 phases - 3 poles	200 V AC 240 V AC 480 V AC 600 V AC	10 HP 56 FLA 20 HP 54 FLA 40 HP 52 FLA 50 HP 52 FLA	25 HP 68 FLA 50 HP 65 FLA

Marking

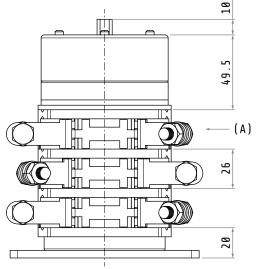
Compliance by passed test	Approved	
ϵ	c (UL) us	

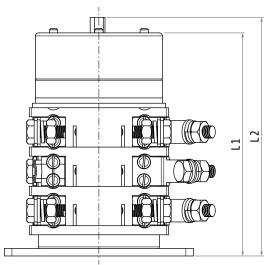
G125...B





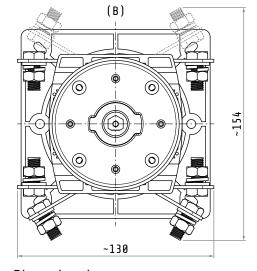
- (A) wafer (thickness = 26 mm)
- (B) overall dimensions with the more complex configuration







protection class IP00



Dimensions in mm Illustrations NOT in scale

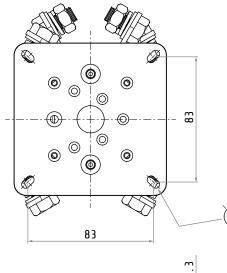
Some dimensions depend on the number of wafers of the cam switch and can be calculated with these formulas:

L1 [mm]	20 + (26 × n. of wafers) + 49.5
L2 [mm]	L1 + 10.3

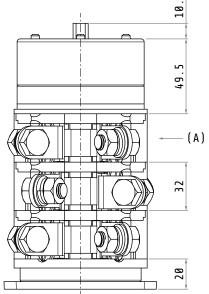
Examples:

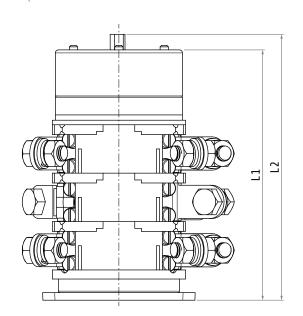
n. of wafers	1	2	3	4	
L1 [mm]	95.5	121.5	147.5	173.5	
L2 [mm]	105.8	131.8	157.8	183.8	





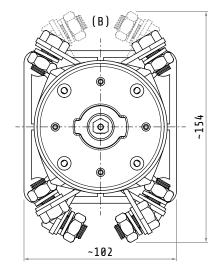
- (A) wafer (thickness = 32 mm)
- (B) overall dimensions with the more complex configuration







Terminal protection class IP00



Dimensions in mm Illustrations NOT in scale

Some dimensions depend on the number of wafers of the cam switch and can be calculated with these formulas:

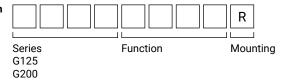
L1 [mm]	20 + (32 × n. of wafers) + 49.5
L2 [mm]	L1 + 10.3

Examples:

n. of wafers	1	2	3	4	
L1 [mm]	101.5	133.5	165.5	197.5	
L2 [mm]	111.8	143.8	175.8	207.8	

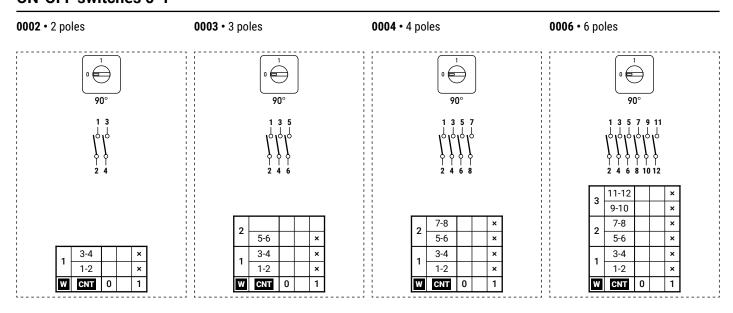
ELECTRICAL SCHEMES

Code checking pattern



Function	N. of wafers	Electrical scheme
ON-OFF switches 0-1		
0002 ON-OFF switch 2 poles	1	
0003 ON-OFF switch 3 poles	2	— n 6
0004 ON-OFF switch 4 poles	2	— p.6
0006 ON-OFF switch 6 poles	3	

ON-OFF switches 0-1



W	Wafers
CNT	Contacts

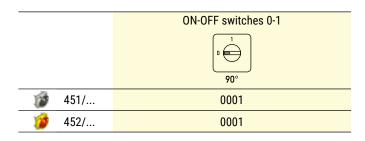
ACTUATORS

Cam switches / actuators matrix

Check the "Operation schemes matrix" (p.7) to identify the available operation scheme for each operator. Each actuator is referenced to the relevant page of the mounting instructions.

Series and size		G125	G200
Terminal protection class		IP00	IP00
Mounting type		В	В
95×95	Grey/Black max 3 padlocks	160	160
screw	IP65	451/ (p.8)	451/ (p.8)
95×95	Yellow/Red max 3 padlocks		
screw	IP65	452/ (p.8)	452/ (p.8)

Operation schemes matrix

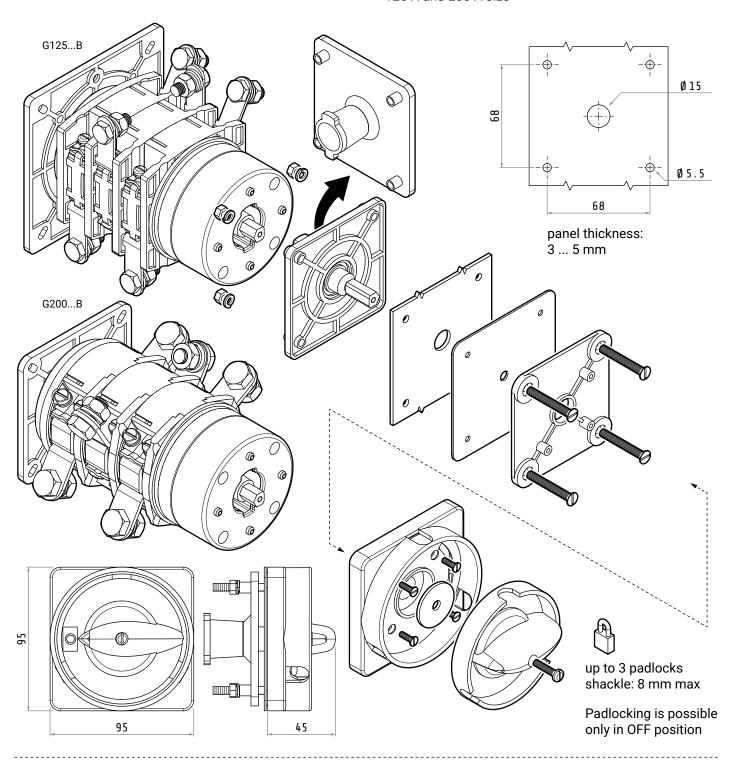


Actuator code example: 451/0001

MOUNTING INSTRUCTIONS

451/... - 452/...

The instrucions are valid for both cam switches with 125 A and 200 A size



Mounting

