



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

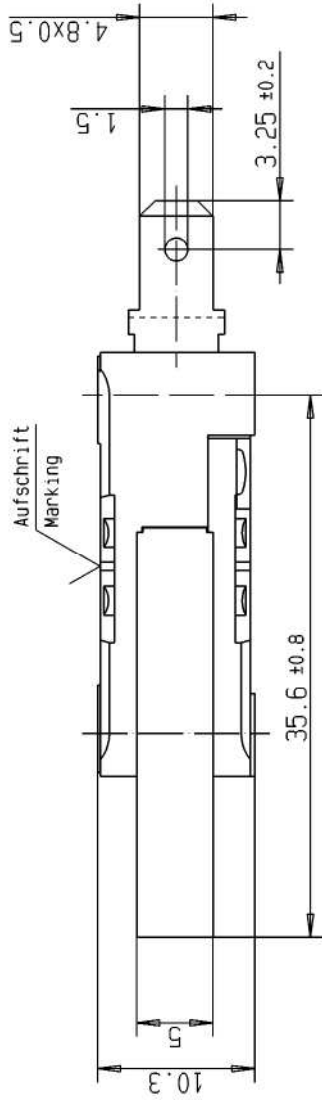
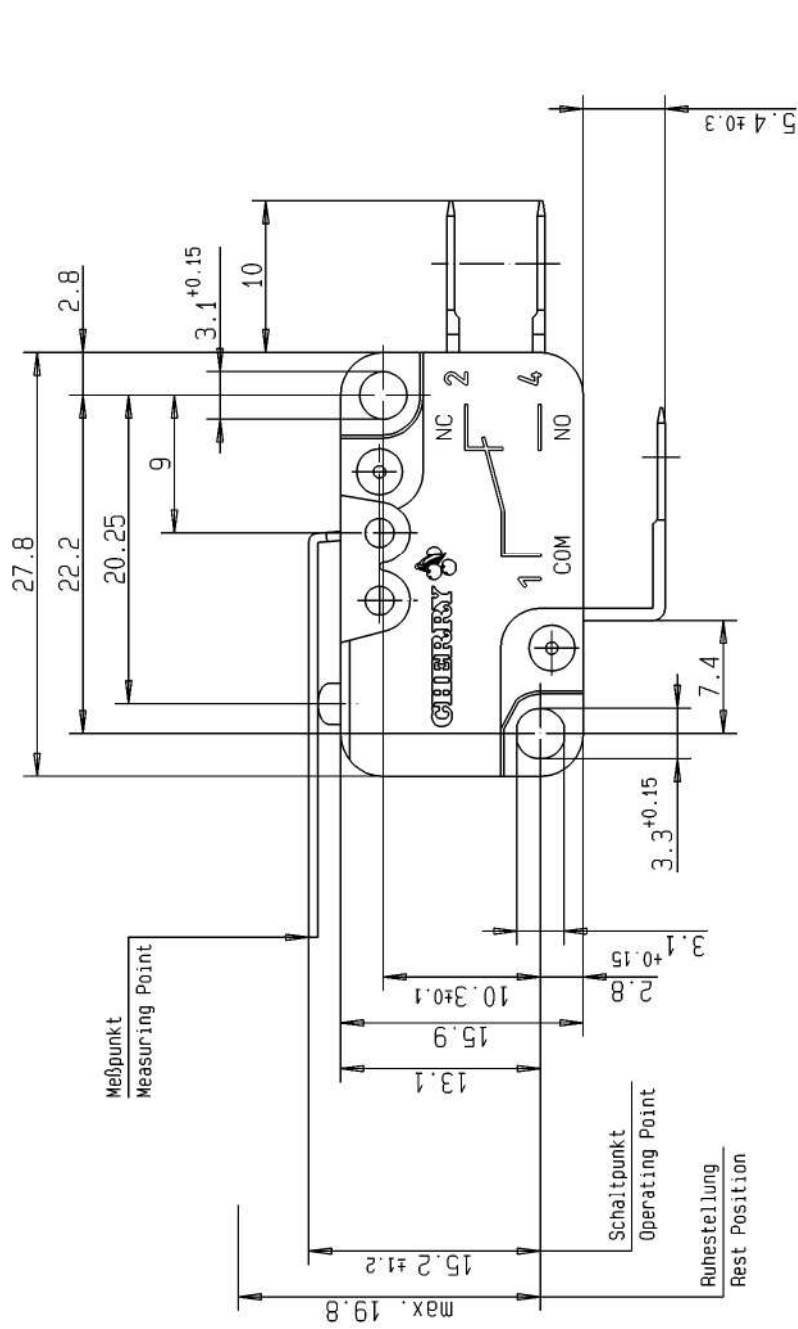
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Hinweis / Remark:

NC and NO dürfen bei gleichzeitigem Betrieb nur an gleichem Potential betrieben werden.
Die geforderten Kriech- und Luftstrecken werden bei aufgesteckten Flachsteckhülsen unterschritten, deren Einhaltung muß durch die Art des Einbaues sichergestellt werden oder der Anschluß darf nur mit geeigneten isolierten Flachsteckhülsen erfolgen.
NC and NO shall only be used at the same electrically potential.
The requirements of the creepage distances or clearances with mounted female tabs are not fulfilled, they have to be met by use of suitable insulated female tabs or by the way of building-in.

Index	60	21.11.13	HZ	Drawing prepared.
Rev.				Änderung / Modification
				AW-Nr. / Document-No.

Werkstoffe / Materials:

Gehäuse, Deckel: PA 6, UL 94 V-0
Case, Cover

Betätiger : POM, UL 94 HB
Button

Anschluß COM : CuZn37, gal. Ag/silver plated
Terminal

Anschluß NC, NO: CuZn37
Terminal

Kontakte : AgNi10
Contacts

Zusatzbetätiger: DC03, gal. Ni/nickel plated
Aux. Actuator

Allgemeintoleranzen nach / General tolerances according to DIN ISO 2768-m

Winkeltoleranzen / Angle tolerances: ±2°

Weitere Angaben siehe technische Spezifikation TS-D4-00001..

Bei Abweichungen gelten die Zeichnungsangaben.

Further details please refer to technical specification TS-D4-00001.

In case there are any deviations, the details of the drawing have priority.

max.	3.2 mm	min.	2.3 mm	max.	0.8 mm	max.	40 cN	min.	8 cN
Vorlaufweg	Nachlaufweg	Differenzweg	Betätigungskraft	Rückschaltkraft					
Pretravel	Overtravel	Movement Diff.	Operating Force	Release Force					

Schaltleistung nach / IEC 61058-1: 10(3)A, 125/250VAC, 5E4, 40T85
Electrical load according to

Kontaktöffnungsweite : µ
Contact Disconnection

Kriechstromfestigkeit: PTI 300
Proof Tracking Index

Bauform nach / Type of
Construction according to
DIN 41635 Form A

Benennung / Description:

Miniaturschalter D449

Miniature Switch

ZF Friedrichshafen AG

Electronic Systems

DE-91275 Auerbach/Opf.

Ersatz für / Replace for:

Kunde / Customer

Teile-Nr. / Part No.

D449 - R1LD

Prüfzeichen:
Approvals



Datum / Date	Name / Name
Bearbeitet/Drawn	W. Schnödt
Geprüft/Approved	H. Zuber

Zeichnungs-Nr. / Drawing No.: