

80040 \\
The manufacturer accepts no liability for errors or changes in specification. Printed in Germany. 45392530 E, Juni 2002 \\
3, Mün \\
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6 2002 Cherry GmbH

Phone: (0 96 43) 18 - 2 06 Fax: (0 96 43) 18 - 15 45 Fax: (0 96 43) 18 - 15 45 Internet: www.cherry.de

Cherry GmbH Cherrystrasse D-91275 Auerbach/Opf.



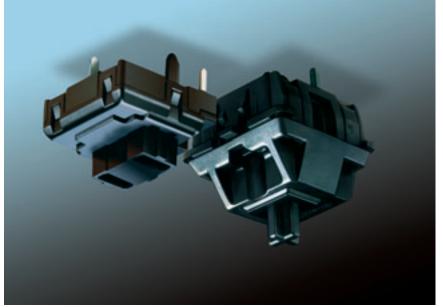
for a wide range of applications. reliability and durability pave the way pleasant feel and exceptionally high Very short bounce times, very also possible. key cap, different lead spacings are and keyboards. Depending on the flexible designing of low-cost keypads

Crosspoint contact technology allow contact reliability thanks to Goldheight, pleasant feel and excellent

make contact element. Low assembly

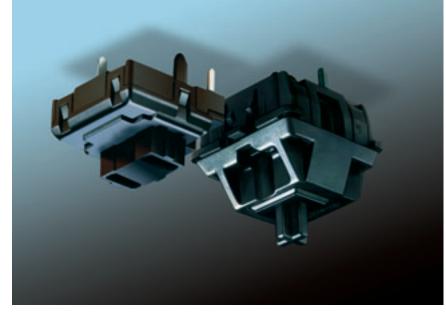
input elements with a single-gap

Cherry key modules are mechanical Keymodule



Keymodule MX Keymodule ML Technical Data General Information

Contents



Humidity (without condensation)	%96 01 %9 9% 10 82%	89 Jainid %9 01 %9
Storage temperature	2° 07+ 0 5° 04-	-40° C to +70° C
Operating temperature	2° 07+ 02° 01-	-10° C to +70° C
Protection class	IP 40	0 t dl
Other Characteristics		
Contacts	01 pAuA	High-quality gold alloy
9ning	Stainless steel	Stainless steel
Insulation materials	Thermoplastics (min UL 94 HB)	Thermoplastics UL listed
Materials		
Wire jumper	_	lsnoiiqo
Decoupling diode	_	lsnoitqo
Lighting (optional)	_	LED in red, green or yellow
W /		Fixing pins in the printed circuit board
Fastening	Fixing pins in the printed circuit board	Snap fastening in frame or
Standard lead spacing	(nim mm 31) mm 30.91	(nim mm 31) mm 30.91
Bounce time during actuation with 0.4 m/s	sw g⋝	sw g⋝
Pressure point force	50 ±20 cM	No 0S± 55
		45 ±20 cN pressure point
Actuation force	45 ±20 cN	60 +20 cM linear and latching;
Initial force	30 cM min	No 04
Pre-travel	mm 3.0± 3.1	gnintst mm 4.0± 4.1 \ eslu9 mm 3.0± 2
Actuator travel	mm	9.0-0.4 mm Pulse / 4.2 ±0.3 mm latching
Action	Pressure point	Linear, pressure point, latching
Number of contacts	Single-gap make contact element	Single-gap make contact element
Mechanical Characteristics		
WCBF		$_{ m J}$ $_{ m J}$ $_{ m Ge}$
latched pushbutton	_	0,5x10e latched pushbutton
Service life at 5V,		
bressure point	20×10°	50x10° pressure point
Durability at 5V, 1mA		
Durability at 5V, 1mÅ linear	_	20 x 10 $^{\circ}$ linear
lsolation resistance (new)	2M 001	2M 001
Dielectric strength	ZH09/Λ 009	ZH09/Λ 009
Capacity at 1kHz	= ==== (3) +==== (4) ==== == = = = = = = = = = = = = = = =	∃d ≥
Contact resistance		

10 mA AC/DC max, 10 uA DC min.

15 V AC/DC

Model ML

50° °C / 5s

DIN IEC 88

Soldering temperature/duration

Soldering capability

Switching current

Switching voltage

Electrical Characteristics

50° °C / 5s

DIN IEC 88

Technical Data



10 mA AC/DC max, 10uA DC min.

12 V AC/DC max, 2 V DC min

XM laboM

G99-1370 ZUB

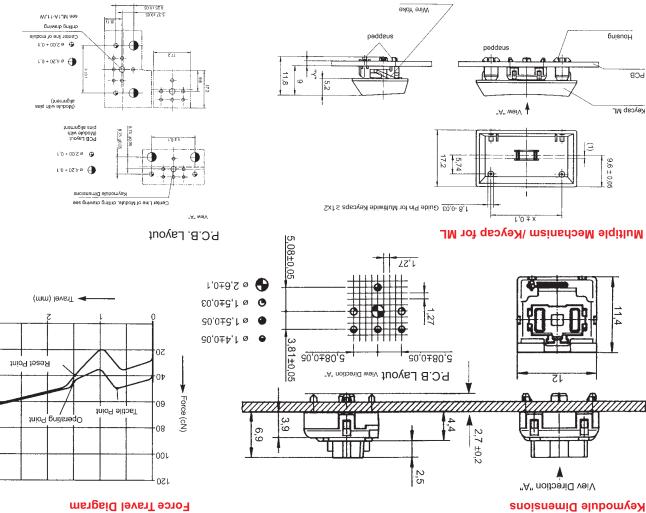
range of applications.

Description

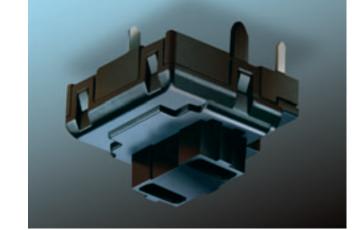
cost-savings pave the way for a wide stroke, pleasant feel and enormous Very short bounce time, reliable cap shapes allows flexible designs. low height. A multitude of different keypads with great diversity and very construction of keyboards and particularly suitable for low-cost Its pleasant feel makes the module Gold-Crosspoint contact technology.

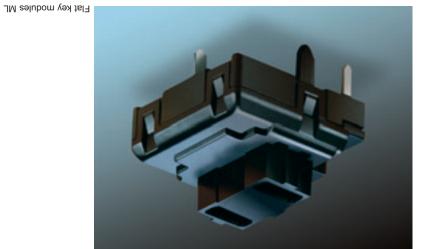
single-gap make contact element in

mechanical switching element using The Cherry ML key module is a



Keymodule ML





1,25x2x1 Yerlikal	
1x2 vertikal	
Z,İxİ	111
1x1 48,0x1	
Keycap Format	Keymodule

-	£000-£578	8000-8379	52,1×1
-	2000-675	1000-8378	1×1
-	2000-675		48,0×1

รวบเซนาลเม	 adna (av.	

soinsdoəm	guq	Keycaps

Keymodule	Keycap	Ordering-Numbers	X noisnamiQ	Bar	nun yldməssA
solusham and mechanics					

white-grey beige-grey

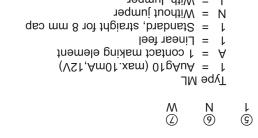
Keycaps and mechanics	

Accessories:

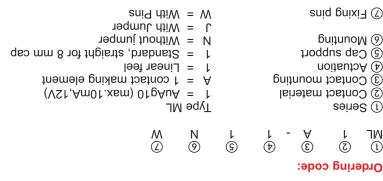


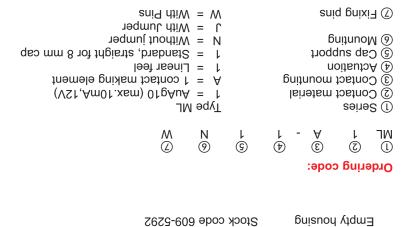
	gxļ	2000-8979	6000-8949	91,911	0105-419	G99-1370 ZUB	
	6,1x1 83,1x1 2x1,1x1 2x,2x1	6763-0011 6763-0004 6763-0004 6763-0004	0100-£978 6763-0001 1200-£978	9'27 99'17 99'17 97'21	2009-719 2009-719 2009-719 2009-719	C99-1303 ZUB C99-1301 ZUB C99-1300 ZUB C99-1300 ZUB	
and the second s	1,25x2x1 vertikal 1,5x2x1,25 vertikal	2000-7979	£000-7978 8000-7978	- -	-	G99-1303 ZNB	
	1x2 vertikal	7 000-7878	9000-2929	9'97	Z009-†l9	G99-1303 ZUB	
1 3	32,1×1	8000-8978	6753-0003	-	-	-	
1	1×1 48,0×1	1000-8478	2000-£476	-	- -	- -	

0109-419 614-5010



6700-6979





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(mechanical parts and bar)

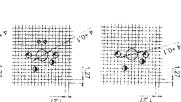
Assembly number

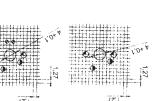
Keymodule MX

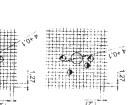


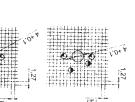
diode or wire jumper. integrated color LED decoupling reliability for fast typing. With either Gold-Crosspoint contacts and high

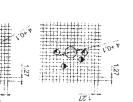
 $WCBE = 1 \times 10^{9}$

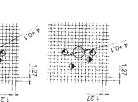


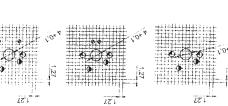


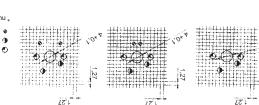


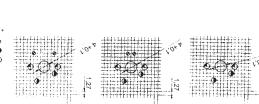


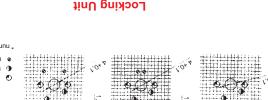






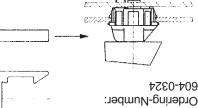


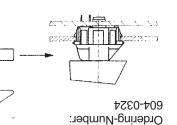


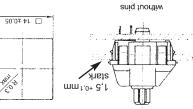


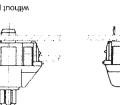


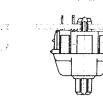




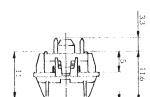


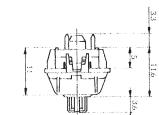


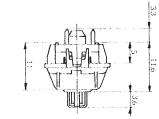


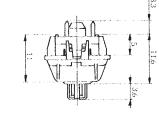


Keyswitch Assembly

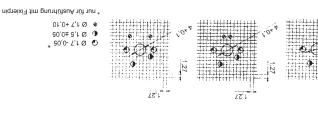






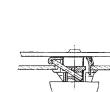


View of Keymodule









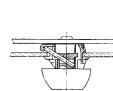
Part No. w/o frame

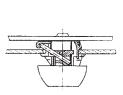
Part No. with frame

(mm ni) "A"

Type of keycap

Size of keycap











90'0∓ b Ø

C99-0742

C99-0224

8,62

mm 8

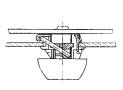
1x2,75

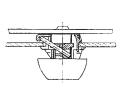
1x2,25

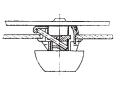
1x2

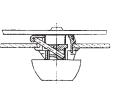
1x2, 1x2,25, 1x2,75

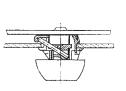
Cutout of frame for keycap sizes

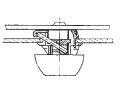


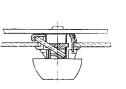


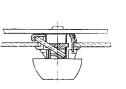


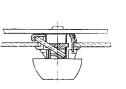


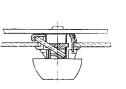


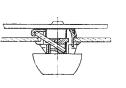




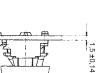






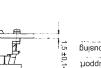










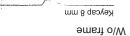






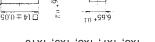






Spacebar Mechanism

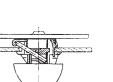
X8m E.0 8 0.3 max / L0 +S.14

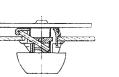


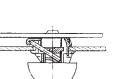


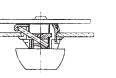


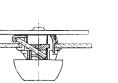


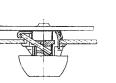


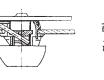






































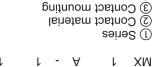








leel Linear feel



səirəS () XW

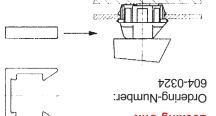
(1)

aniq gnixi∃ (∑

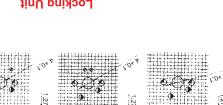
gnifinoM (a)

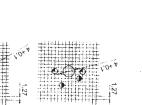
4 Actuation

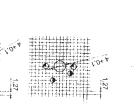
© Cap support

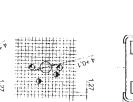




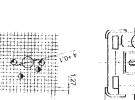


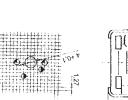


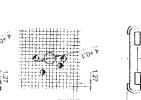


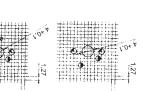


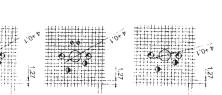
MX with alternate action

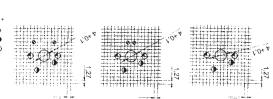










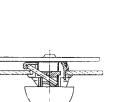






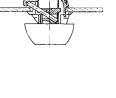
Keycap 8 mm with frame

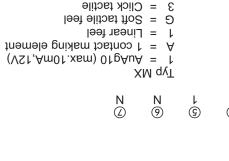
PC.B.











J = With Jumper

W = With Pins (no frame required)

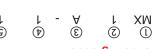
N = Without pins (frame required)without LED or Diode

D = With diode, without LED

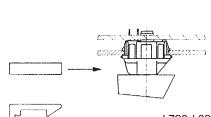
Y = Yellow LED, without diode G = Green LED, without diode R = Red LED, without diode N = Without LED, without diode

1 = Standard, straight for 8 mm cap

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9	Ġ	7	3	(7)
IN	L	L '	- 7	L

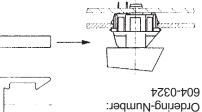


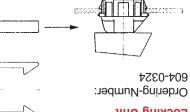


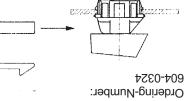


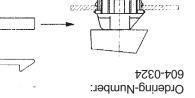
is the individual choice of pleasant

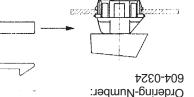
The special advantage of the MX key

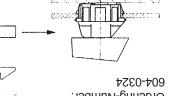


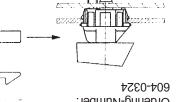


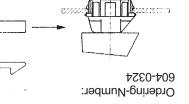


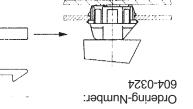


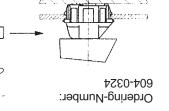




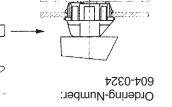




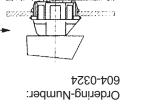




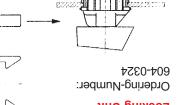


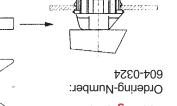














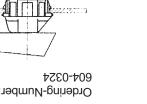




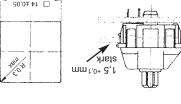


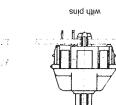














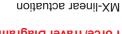
















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299-0744

G99-0226

133,35

mm 8

8x1

C99-0743

G99-0225

1,85

mm 8

Center of keyswitch

1,0+ 30,8 Q

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