

Technical Information

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Activation speed		mm/s	1...1500
Frequency of operation		operations/min.	30
Insulation		500 V DC MΩ	100
Insulation strength		50/60 Hz for 1' * V AC	2500
Rated insulation voltage	Ui	IEC947-5-1 V AC	500
Rated thermal current	Ithe	IEC947-5-1 A	10
Rated operating current		IEC947-5-1/EN60947-5-1	
	Category AC15	le	24 V A 10
	A300		125 V A 10
			230 V A 6
			400 V A 4
			500 V A 3
	Category DC13	le	24 V A 10
	Q300		48 V A 4
			120 V A 1
			250 V A 0,4
Contact resistance	IEC255-7 cat.3	initial value mΩ	25
Protection against short circuit	IEC269 (IEC947-5-1)		
	gl or gG type fuse	A	10
Conditional short circuit current	IEC947-5-1	A	1000
Pollution level	IEC947-5-1		3
Protection level	EN 60529	IP	66
Protection against voltage peaks		plastic class	II
		metal class	I
Resistance to vibrations	IEC68-2-6	mm	0,35 ± 15% (10 to 55 Hz ± 1 Hz)
Resistance to shock	IEC68-2-27	11 ms g	30
Mechanical duration		cycles min	15.000.000
Electrical duration	at 250 V AC 6A with resistant load cosβ=1	min cycles	500.000
	at 250 V AC 6A with resistant load cosβ=0,4	min cycles	500.000
Distance between contacts	fast action models	mm	2x1,25
	slow action models	mm	2x2
Terminals	type		Screw with combined notch and removable plate (notch Ph, size 1)
	screw	M	3,5
	protection level	IP	20 A
	material		Steel class 8.8 / galvanised iridescent yellow 6 to 8μ
	max screw tightening force	N cm (Kg cm)	120 (12,24)
	connecting sections	rigid cable mm²	2x1,5
		flexible cable mm²	2x1,5
	with prod terminal	mm²	1x1,5
	terminal numbering		in accordance with EN50013

Conditions of use

Ambient operating temperature	°C	-35 to +85 (without formation of ice)
Relative operating humidity		95% max

* between terminals of the same polarity; between terminals of different polarity; between live mechanical parts and mass; between live mechanical parts and unpowered mechanical parts

In metal

Steel pushbutton

Code	Model	Description	Type	Travel diagram	Weight
EN800020	E102 00 AM *	1NO+1NC fast action	00		0,185

Pushbutton with steel roller

Code	Model	Description	Type	Travel diagram	Weight
EN800040	E102 00 BM *	1NO+1NC fast action	00		0,195

One way roller lever (horizontal)

Code	Model	Description	Type	Travel diagram	Weight
EN800060	E102 00 CM *	1NO+1NC fast action	00		0,195

One way roller lever (vertical)

Code	Model	Description	Type	Travel diagram	Weight
EN800080	E102 00 DM	1NO+1NC fast action	00		0,195

* Produced in accordance with EN 50047

Other contact configurations and operating heads available
Call CARLO GAVAZZI for details

- Dimensions page **A18**
- Technical information page **A8**
- Operating features page **A10**
- Approval and certification page **D8**



Straight lever with plastic roller

Code	Model	Description	Type	Travel diagram	Weight
EN800100	E102 00 EM *	1NO+1NC fast action	00		0,220

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Adjustable lever with plastic roller

Code	Model	Description	Type	Travel diagram	Weight
EN800120	E102 00 FM	1NO+1NC fast action	00		0,240



6mm dia. fiberglass rod

Code	Model	Description	Type	Travel diagram	Weight
EN800140	E102 00 GM	1NO+1NC	00		0,240



Reversible, adjustable lever with plastic roller

Code	Model	Description	Type	Travel diagram	Weight
EN850500	E102 00 RM	1NO+1NC fast action	00		0,200

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Limit switches - E102...M



Dimensions (mm)

In metal

Series	Side view	Front view	Series	Side view	Front view
E102 AM AM/S1			E102 IM IM/C		
E102 BM			E102 EM/50		
E102 CM CM/S1			E102 IM/50		
E102 DM DM/S1			E102 FM FM/C		
E102 EM EM/C			E102 FM/50		

In metal

Series	Side view	Front view	Series	Side view	Front view
E102 GM HM			E102 QM		
E102 RM			E102 FRM/50		
E102 LM					
E102 LPM					
E102 LSM					

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