

**Cod. FMV4R12230**

### Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller

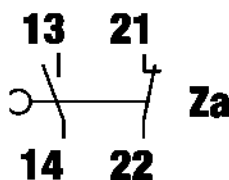


### Characteristics

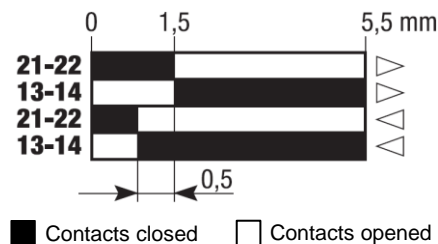
- Metal body and metal head
- IP64 protection degree
- Steel roller plunger actuator
- 1NO+1NC snap action contact block
- Contact block with positive opening
- 2 cable entries
- Cable entry with Pg thread



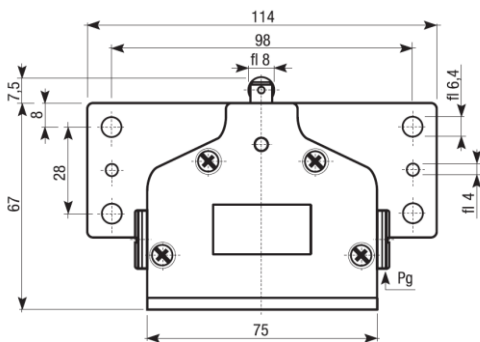
### Contact block



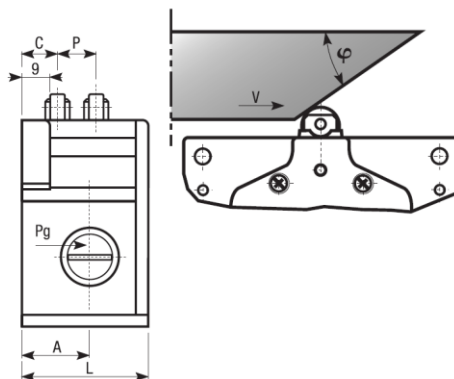
### Contact travel



### Dimension



### Drive cam operating parameters



Drive cam operating parameters	
$\varphi$	V max (m/s)
30°	1
20°	1,5

Drive forces	
Minimum command force	10 N
Minimum force on lateral travel	18 N

N° of actuators	P	C	L	Pg	A
4	12	30	78	13,5	35

P = Pitch (distance between two actuators)

C = Distance between bracket and first actuator

L = Overall dimensions

A = Distance between bracket and input/output holes

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### Technical data

			TYPE	FMV	
Maximum operating frequency			operat./hour <sup>1</sup>	1800	
Insulation resistance		500 V DC	MΩ	100	
Dielectric strenght		50/60 Hz for 1'	V AC	2000 <sup>2</sup>	
Rated insulation voltage	Ui	IEC947-5-1	V AC	500	
Rated thermal current	Ithe	IEC947-5-1	A	10	
Rated operating current	Category AC15 A300	Ie IEC947-5-1/EN60947-5-1	24V	A	10
			125V	A	10
			230 V	A	6
			400 V	A	4
Contact resistance		IEC255-7 cat.3	initial value	mΩ	25
Short circuit protective devices		IEC269 (IEC947-5-1)	fuse type gL or gG	A	10
Pollution degree		IEC947-5-1	A	A	3
Protection degree		EN 60529			IP64
Protection against electric shock			metal class		I
Vibration resistance		IEC68-2-6	mm		0,35 ± 15% (10 ÷ 55 Hz ± 1 Hz)
Shock resistance		IEC68-2-27	11ms	g	30
Mechanical life				cycles	30,000,000
Electric life		at 250V AC 6A with resistance load cosφ=1		cycles	500,000
		at 250V AC 6A with inductive load cosφ=0,4		cycles	500,000
Terminals	Type				Screw with combined notch and retractable plate (notch Ph, Size 1)
	Screw				M3,5
	Material				Steel class 8,8 / Galvanized
	Max. screw tightening torque		Ncm (Kg cm)		120 (12,24)
	Max connecting capacity	rigid cable		mm <sup>2</sup>	
flexible cable			mm <sup>2</sup>		2x1,5
with prod terminal					1x1,5
Terminal numbering					In accordance with EN50013
Air ambient temperature			operational	°C	-10 ÷ +70 (without formation of ice)
Relative umidity			operational		95% max

<sup>1</sup> One operation cycle means two movements, one to close and one to open as required by EN 60947-5

<sup>2</sup> Between terminals with different polarity; between live mechanical parts and ground; between live mechanical parts and non-current-carrying metal parts