

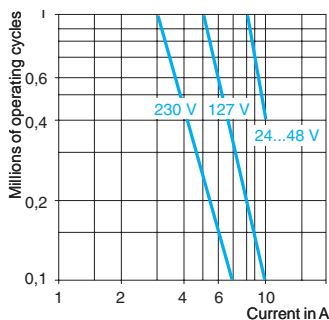
1

Environment	
Conformity to standards	EN/IEC 60947-5-1
Product certifications	Standard version: CSA A600-Q600, LRO
Protective treatment	Standard version: "TC"
Ambient air temperature	Operation: - 25...+ 70 °C. Storage: - 40...+ 70 °C
Operating position	All positions
Vibration resistance	5 gn (40 Hz < frequency < 500 Hz) conforming to IEC 60068-2-6
Shock resistance	20 gn conforming to IEC 60068-2-27
Electric shock protection	Class I, conforming to 61140
Degree of protection	IP 66 conforming to IEC 60529
Mechanical life	1 million operating cycles

Contact block characteristics	
Rated operational characteristics	~ AC-15; A300 or $U_e = 240\text{ V}$ and $I_e = 3\text{ A}$ ⋯ DC13; Q300 or $U_e = 250\text{ V}$ and $I_e = 0.27\text{ A}$ conforming to EN/IEC 60947-5-1
Rated insulation voltage	$U_i$ : 500 V conforming to EN/IEC 60947-1; degree of pollution 3; 600 V conforming to UL 508 and CSA C 22-2 n° 14
Rated impulse withstand voltage	$U_{imp} = 6\text{ kV}$ conforming to EN/IEC 60947-1
Contact operation	Slow break N/O
Short-circuit protection	10 A cartridge fuse type gG (gl) or N conforming to EN/IEC 60947-5-1
Terminal referencing	Conforming to CENELEC EN 50013

**Rated operational power** Conforming to EN/IEC 60947-5-1 Appendix C. Utilisation categories AC-15 and DC-13. Operating rate: 3600 operating cycles/hour. Load factor: 0.5

**a.c. supply** ~ 50-60 Hz  
 ⋈ Inductive circuit



**d.c. supply** ⋯  
 Power broken in W  
 for 1 million operating cycles

Voltage V	24	48	120
⋈ W	65	48	40

Electrical reliability	Failure rate < 1 fault for 100 million operating cycles (programmable controller inputs, ⋯ 24 V)
Connection	- Screw and captive cable clamp terminals. Clamping capacity: min. 1 x 0.5 mm <sup>2</sup> , max., with or without cable end: 2 x 1.5 mm <sup>2</sup> - 6.3 mm Faston connectors (on request)

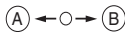
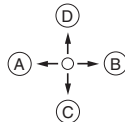
94172



XD2 GA8211

### Complete units type XD2 G, with chromium plated metal bezel

#### Interchangeable contacts

Description	Operation	Spring return to zero position	Bezel finish	Reference	Weight kg		
<b>2 direction</b> Fixing centres 90 x 90 mm	1 notch 1 N/O contact per direction	Without	Shiny	<b>XD2 GA8211</b>	0.300		
			Black	<b>XD2 GA82117</b>	0.300		
		With	Shiny	<b>XD2 GA8221</b>	0.300		
			Black	<b>XD2 GA82217</b>	0.300		
			2 notches 2 N/O contacts per direction	Without	Shiny	<b>XD2 GA8231</b>	0.500
				Black	<b>XD2 GA82317</b>	0.500	
		With	Shiny	<b>XD2 GA8241</b>	0.500		
			Black	<b>XD2 GA82417</b>	0.500		
			1 <sup>st</sup> notch stay put 2 <sup>nd</sup> notch with spring return to 1 <sup>st</sup> notch	Shiny	<b>XD2 GA8251</b>	0.500	
				Black	<b>XD2 GA82517</b>	0.500	
<b>4 direction</b> Fixing centres 90 x 90 mm	1 notch 1 N/O contact per direction	Without	Shiny	<b>XD2 GA8411</b>	0.330		
			Black	<b>XD2 GA84117</b>	0.330		
		With	Shiny	<b>XD2 GA8421</b>	0.330		
			Black	<b>XD2 GA84217</b>	0.330		
			2 notches 2 N/O contacts per direction	Without	Shiny	<b>XD2 GA8431</b>	0.550
				Black	<b>XD2 GA84317</b>	0.550	
		With	Shiny	<b>XD2 GA8441</b>	0.550		
			Black	<b>XD2 GA84417</b>	0.550		
			1 <sup>st</sup> notch stay put 2 <sup>nd</sup> notch with spring return to 1 <sup>st</sup> notch	Shiny	<b>XD2 GA8451</b>	0.550	
				Black	<b>XD2 GA84517</b>	0.550	

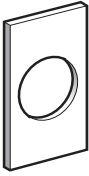
94173



XD2 GA8441

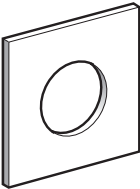
1

500846\_1



ZD2 GY5201

500847\_1



ZD2 GY6201

94174



ZB2 BE101

## Legend plates

Description	Text	Colour	Reference	Weight kg
<b>2 direction</b> 40 x 64 mm	Without	Black one side, red reverse	<b>ZD2 GY5201</b>	0.002
		White one side, yellow reverse	<b>ZD2 GY5401</b>	0.002
	With (1) (specify when ordering)	Black background, white letters	<b>ZD2 GY5002</b>	0.002
		Red background, white letters	<b>ZD2 GY5004</b>	0.002
		White background, black letters	<b>ZD2 GY5001</b>	0.002
		Yellow background, black letters	<b>ZD2 GY5005</b>	0.002
<b>4 direction</b> 64 x 64 mm	Without	Black one side, red reverse	<b>ZD2 GY6201</b>	0.003
		White one side, yellow reverse	<b>ZD2 GY6401</b>	0.003
	With (1) (specify when ordering)	Black background, white letters	<b>ZD2 GY6002</b>	0.003
		Red background, white letters	<b>ZD2 GY6004</b>	0.003
		White background, black letters	<b>ZD2 GY6001</b>	0.003
		Yellow background, black letters	<b>ZD2 GY6005</b>	0.003

## Contact blocks

Description	Contact	Reference	Weight kg
<b>Slow break</b> Additional or replacement	N/O	<b>ZB2 BE101</b>	0.015

(1) 2 lines of 11 characters maximum per direction.

## Other versions

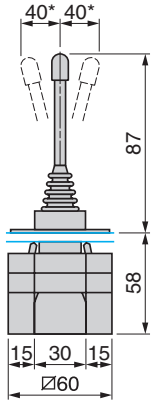
XD2 G joystick controllers with:

- variable composition; 2, 3, 4 or 8 direction,
- contact blocks with Faston connectors conforming to NF C 20-120,
- gold flashed contacts for low power switching.

Please consult your customer care centre.

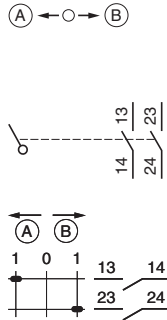
**XD2 GA●●**

1 notch  
1 N/O contact per direction

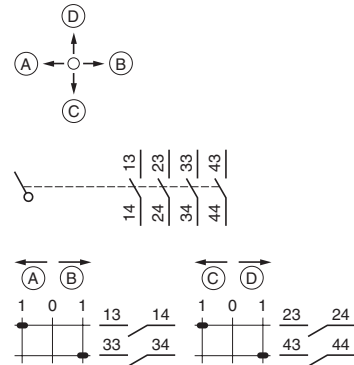


\* in each of the 4 directions

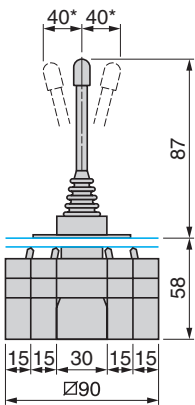
**XD2 GA8211, GA8217**  
**XD2 GA8221, GA8227**



**XD2 GA8411, GA8417**  
**XD2 GA8421, GA8427**

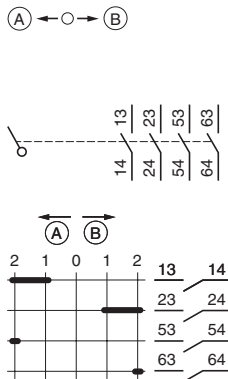


2 notches  
2 N/O contacts per direction

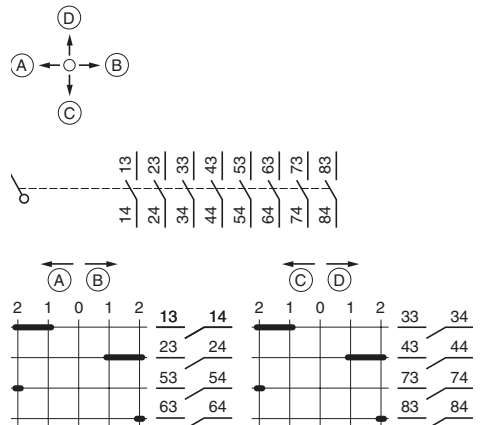


\* in each of the 4 directions

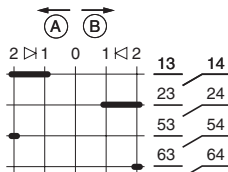
**XD2 GA8231, GA8237**  
**XD2 GA8241, GA8247**



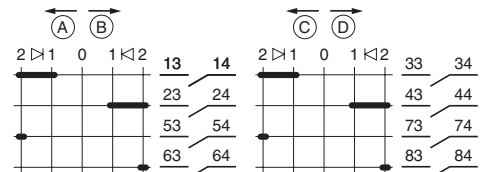
**XD2 GA8431, GA8437**  
**XD2 GA8441, GA8447**



**XD2 GA8251, GA8257**



**XD2 GA8451, GA8457**



**Panel cut-out**  
(thickness 1 to 6 mm)  
XD2 GA (2 and 4 direction)

