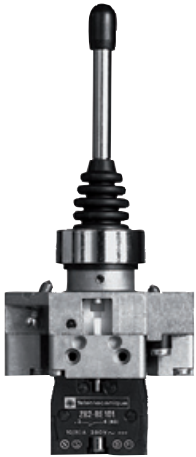


94172

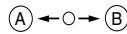


XD2 GA8211

### Komplettgeräte Typ XD2 G in Metallausführung, mit verchromtem Frontring

#### Hilfsschalter austauschbar

Beschreibung	Funktion	Rückzug in die Nullstellung	Frontring	Bestell-Nr.	Gew. kg
<b>2 Richtungen</b> Montage- mittenabstand 90 x 90 mm	1-stufig 1 Hilfsschalter „S” je Richtung	Ohne	Blank	<b>XD2 GA8211</b>	0,300
			Schwarz	<b>XD2 GA82117</b>	0,300



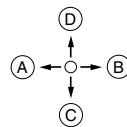
		Mit	Blank	<b>XD2 GA8221</b>	0,300
			Schwarz	<b>XD2 GA82217</b>	0,300

<b>2 Richtungen</b> Montage- mittenabstand 90 x 90 mm	1-stufig 2 Hilfsschalter „S” je Richtung	Ohne	Blank	<b>XD2 GA8231</b>	0,500
			Schwarz	<b>XD2 GA82317</b>	0,500

		Mit	Blank	<b>XD2 GA8241</b>	0,500
			Schwarz	<b>XD2 GA82417</b>	0,500

			Blank	<b>XD2 GA8251</b>	0,500
			Schwarz	<b>XD2 GA82517</b>	0,500

<b>4 Richtungen</b> Montage- mittenabstand 90 x 90 mm	1-stufig 1 Hilfsschalter „S” je Richtung	Ohne	Blank	<b>XD2 GA8411</b>	0,330
			Schwarz	<b>XD2 GA84117</b>	0,330



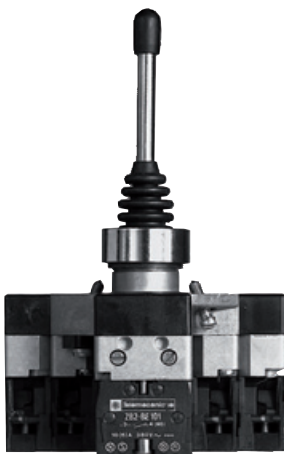
		Mit	Blank	<b>XD2 GA8421</b>	0,330
			Schwarz	<b>XD2 GA84217</b>	0,330

<b>2 Richtungen</b> Montage- mittenabstand 90 x 90 mm	1-stufig 2 Hilfsschalter „S” je Richtung	Ohne	Blank	<b>XD2 GA8431</b>	0,550
			Schwarz	<b>XD2 GA84317</b>	0,550

		Mit	Blank	<b>XD2 GA8441</b>	0,550
			Schwarz	<b>XD2 GA84417</b>	0,550

			Blank	<b>XD2 GA8451</b>	0,550
			Schwarz	<b>XD2 GA84517</b>	0,550

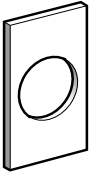
94173



XD2 GA8441

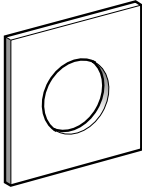
1

500946\_1



ZD2 GY5201

500947\_1



ZD2 GY6201

94174



ZB2 BE101

## Schilder

Beschreibung	Beschriftung	Farbe	Bestell-Nr.	Gew. kg
2 Richtungen 40 x 64 mm	Ohne	Vorderseite schwarz, Rückseite rot	<b>ZD2 GY5201</b>	0,002
		Vorderseite weiß, Rückseite gelb	<b>ZD2 GY5401</b>	0,002
Mit (1) (bei der Bestellung bitte angeben)		Weißer Schrift auf schwarzem Grund	<b>ZD2 GY5002</b>	0,002
		Weißer Schrift auf rotem Grund	<b>ZD2 GY5004</b>	0,002
		Schwarze Schrift auf weißem Grund	<b>ZD2 GY5001</b>	0,002
		Schwarze Schrift auf gelbem Grund	<b>ZD2 GY5005</b>	0,002
4 Richtungen 64 x 64 mm	Ohne	Vorderseite schwarz, Rückseite rot	<b>ZD2 GY6201</b>	0,003
		Vorderseite weiß, Rückseite gelb	<b>ZD2 GY6401</b>	0,003
Mit (1) (bei der Bestellung bitte angeben)		Weißer Schrift auf schwarzem Grund	<b>ZD2 GY6002</b>	0,003
		Weißer Schrift auf rotem Grund	<b>ZD2 GY6004</b>	0,003
		Schwarze Schrift auf weißem Grund	<b>ZD2 GY6001</b>	0,003
		Schwarze Schrift auf gelbem Grund	<b>ZD2 GY6005</b>	0,003

## Hilfsschalter

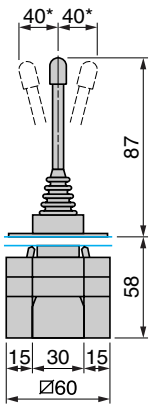
Beschreibung	Hilfsschalter	Bestell-Nr.	Gew. kg
Ohne Sprungfunktion Für Austausch oder Anpassung	„S“	<b>ZB2 BE101</b>	0,015

(1) Maximal 2 Zeilen mit je 11 Zeichen je Richtung

## Weitere Varianten

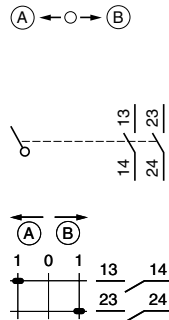
Steuerschalter XD2 G:  
 - mit variablem Aufbau für 2, 3, 4 oder 8 Richtungen,  
 - mit Schaltgliedern für Flachsteckanschluss gemäß  
 NF C 20-120,  
 - mit vergoldeten Schaltgliedern für Kleinspannungen.  
 Wir bitten um Ihre Anfrage.

**XD2 GA●●**  
1-stufig  
1 Hilfsschalter „S“ je Richtung

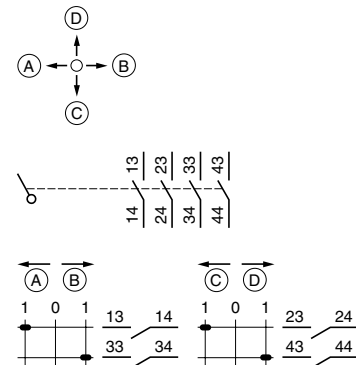


\* in alle 4 Richtungen

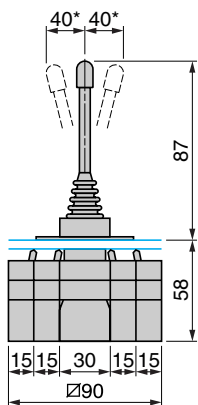
**XD2 GA8211, GA82117**  
**XD2 GA8221, GA82217**



**XD2 GA8411, GA84117**  
**XD2 GA8421, GA84217**

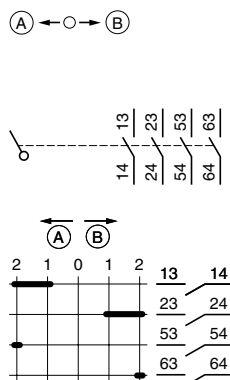


2-stufig  
2 Hilfsschalter „S“ je Richtung

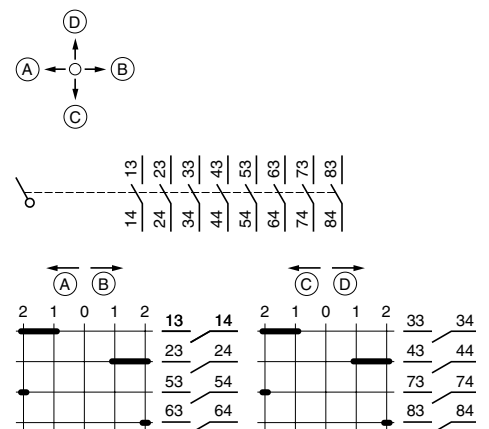


\* in alle 4 Richtungen

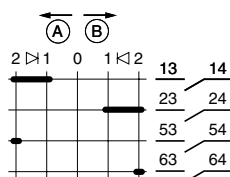
**XD2 GA8231, GA82317**  
**XD2 GA8241, GA82417**



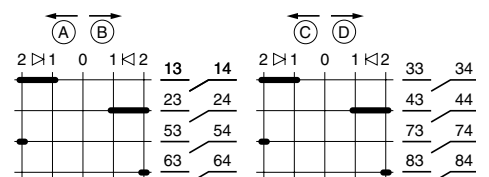
**XD2 GA8431, GA84317**  
**XD2 GA8441, GA84417**



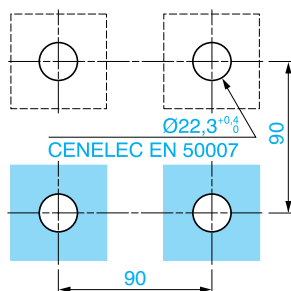
**XD2 GA8251, GA82517**



**XD2 GA8451, GA84517**



**Bohrung der Montageplatte**  
(Stärke: 1 bis 6 mm)  
**XD2 GA** (2 und 4 Richtungen)



Weitere Versionen durch die Kombination von:  
Zubehör: siehe Seite 1/106

# Befehls- und Meldegeräte Ø 22

Harmony® XB4 in Metallausführung

Geräte mit Sonderfunktionen

Anschlüsse USB und RJ45, Sicherungshalter,  
Joysticks, Hebeltaster



XP5PUSB3



XP5PRJ45



XB5DT1S

## Anschlüsse USB und RJ45

Beschreibung	Kommunikations-Port	Anschluss	Schutzart	Bestell-Nr.	Gew. kg
Auf Platte montierte Anschlüsse USB und RJ45, Bohrung mit Aussparung in 22,5 mm	Anschluss USB, Typ A	USB 3.0 A-A	IP 20 IP65, IP67, IP69K mit Schutzkappe (1)	<b>XP5PUSB3</b>	0,017
	RJ45 Ethernet	RJ45, Kategorie 6	IP20 IP65, IP67, IP69K mit Schutzkappe (1)	<b>XP5PRJ45</b>	0,027

(1) Schutzkappen ZBSP● s. Seite 1/115

## Sicherungshalter

Beschreibung	Verwendung für	Bestell-Nr.	Gew. kg
Sicherungshalter	Sicherung 5 x 20 mm, 6,3 A - 250 V	<b>XB5DT1S</b>	0,022

## Joysticks (Hebellänge 54 mm) (2)

Mit Schraubanschluss (Schneider Electric selbstsichernde Anschlussschrauben)

Beschreibung	Funktion	Rückzug in Nullstellung	Bestell-Nr.	Gew. kg
<b>Komplettgeräte</b>				
2 Richtungen	1-stufig 1 „S“ pro Richtung	Ohne	<b>XD4PA12</b>	0,116
		Mit	<b>XD4PA22</b>	0,116
4 Richtungen	1-stufig 1 „S“ pro Richtung	Ohne	<b>XD4PA14</b>	0,133
		Mit	<b>XD4PA24</b>	0,133

## Einzelteile für Joysticks

Beschreibung	Verwendung für	Bestell-Nr.	Gew. kg	
Hilfsschalterblock mit Schraubanschluss	2 Richtungen	<b>ZD4PA103</b>	0,049	
	4 Richtungen	<b>ZD4PA203</b>	0,058	
Frontelement komplett mit Hebel	2 Richtungen, ohne Rückzug in die Nullstellung	<b>ZD4PA12</b>	0,022	
	2 Richtungen, mit Rückzug in die Nullstellung	<b>ZD4PA22</b>	0,022	
	4 Richtungen, ohne Rückzug in die Nullstellung	<b>ZD4PA14</b>	0,022	
	4 Richtungen, mit Rückzug in die Nullstellung	<b>ZD4PA24</b>	0,022	
Schild 30 x 48 mm zum Gravieren	2 Richtungen	Vorderseite schwarz Rückseite rot	<b>ZBG2201</b>	0,001
		Vorderseite weiß Rückseite gelb	<b>ZBG2401</b>	0,001
Schild 48 x 48 mm zum Gravieren	4 Richtungen	Vorderseite schwarz Rückseite rot	<b>ZBG4201</b>	0,002
		Vorderseite weiß Rückseite gelb	<b>ZBG4401</b>	0,002

## Hebeltaster

Frontelement	Verwendung für	Farbe	Bestell-Nr.	Gew. kg
	Betätigung in alle Richtungen, ohne Rastung	Schwarz	<b>ZB4BB2</b>	0,058
		Rot	<b>ZB4BB4</b>	0,058

(2) Der Einsatz von Standard-Hilfsschaltern ZBE 10● oder Standard-Doppel-Hilfsschaltern ZBE 20● ist nicht zulässig.

**Weitere Versionen** Joysticks und Hilfsschalterblöcke für Joysticks mit Flachsteckanschluss (6,35 oder 2 x 2,8).  
Wir bitten um Ihre Anfrage.

101189



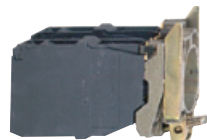
XD4PA12

105074



ZD4PA103

105072



ZD4PA203

105073



ZD4PA12

105497



ZB4BB2

Weitere Versionen durch die Kombination von:  
Zubehör: siehe Seite 1/217

1



XD5PA12



ZD5PA103



ZD5PA203



ZD5PA12



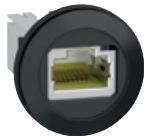
XB5DS



XB5KS



XP5USB3



XP5PRJ45



XB5DT1S

### Joysticks (Hebellänge 54 mm) (1) Mit Schraubanschluss (Schneider Electric selbstsichernde Anschlusschrauben)

Beschreibung	Funktion	Rückzug in Nullstellung	Bestell-Nr.	Gew. kg
<b>Komplettgeräte</b>				
2 Richtungen	1-stufig 1 „S“ je Richtung	Ohne	<b>XD5PA12</b>	0,060
		Mit	<b>XD5PA22</b>	0,060
4 Richtungen	1-stufig 1 „S“ je Richtung	Ohne	<b>XD5PA14</b>	0,077
		Mit	<b>XD5PA24</b>	0,077

Beschreibung	Verwendung für		Bestell-Nr.	Gew. kg
Hilfsschalterblock mit Schraubanschluss	2 Richtungen		<b>ZD5PA103</b>	0,049
	4 Richtungen		<b>ZD5PA203</b>	0,058
Frontelement komplett mit Hebel	2 Richtungen, ohne Rückzug in die Nullstellung		<b>ZD5PA12</b>	0,022
	2 Richtungen, mit Rückzug in die Nullstellung		<b>ZD5PA22</b>	0,022
	4 Richtungen, ohne Rückzug in die Nullstellung		<b>ZD5PA14</b>	0,022
	4 Richtungen, mit Rückzug in die Nullstellung		<b>ZD5PA24</b>	0,022
Schild 30 x 48 mm zum Gravieren	2 Richtungen	Vorderseite schwarz Rückseite rot	<b>ZBG2201</b>	0,001
		Vorderseite weiß Rückseite gelb	<b>ZBG2401</b>	0,001
Schild 48 x 48 mm zum Gravieren	4 Richtungen	Vorderseite schwarz Rückseite rot	<b>ZBG4201</b>	0,002
		Vorderseite weiß Rückseite gelb	<b>ZBG4401</b>	0,002

(1) Der Einsatz von Standard-Hilfsschaltern ZBE 10 oder Standard-Doppel-Hilfsschaltern ZBE 20 ist nicht zulässig.

Weitere Versionen Joysticks und Hilfsschalterblöcke für Joysticks mit Flachsteckanschluss (6,35 oder 2 x 2,8). Wir bitten um Ihre Anfrage.

### Betriebsstundenzähler

Technische Daten	Versorgungsspannung V	Bestell-Nr.	Gew. kg
Anzeige 0...9999,9	~ 12...24 - 50/60 Hz	<b>XB5DSB</b>	0,045
	~ 120 - 60 Hz	<b>XB5DSG</b>	0,045
	~ 230...240 - 50 Hz	<b>XB5DSM</b>	0,045

### Buzzer (IP 40 NEMA 1)

		Bestell-Nr.	Gew. kg
Buzzer 85 dB,	~ 24 - 50/60 Hz	<b>XB5KSB</b>	0,035
Tonfrequenz: 4 kHz,	~ 120 - 50/60 Hz	<b>XB5KSG</b>	0,035
Dauerton oder Pulston (Anschluss: siehe Seite 1/239)	~ 230...240 - 50 Hz	<b>XB5KSM</b>	0,035

### Anschlüsse USB und RJ45

Beschreibung	Kommunikations-Port	Anschluss	Schutzart	Bestell-Nr.	Gew. kg
Auf Platte montierte Anschlüsse USB und RJ45, Bohrung mit Aussparung in 22,5 mm	Anschluss USB, Typ A	USB 3.0 A-A	IP 20	<b>XP5USB3</b>	0,017
			IP65, IP67, IP69K mit Schutzkappe (2)	<b>XP5PRJ45</b>	0,027
	RJ45 Ethernet	RJ45, Kategorie 6	IP20	<b>XP5PRJ45</b>	0,027
			IP65, IP67, IP69K mit Schutzkappe (2)		

(2) Schutzkappen ZBSP s. Seite 1/228

### Sicherungshalter

Beschreibung	Verwendung für	Bestell-Nr.	Gew. kg
Sicherungshalter	Sicherung 5 x 20 mm, 6,3 A - 250 V	<b>XB5DT1S</b>	0,022

# Joysticks Ø 22.2mm (7/8") and Ø 30.5mm (1<sup>3</sup>/16")

## General characteristics

**XD2**  
**XD3**

### Environment

Catalog no. : see pages 5/58 to 60  
Dimensions/Wiring diag. : see pages 5/62-63

<b>Conformity to standards</b>	IEC 337-1, CSA C 22-2 no 14 and 66, NF C 63-140, VDE 0660-200, UL 506
<b>Approvals</b>	<b>XD2/ A, C, G, E, L, P</b> and <b>XD3</b> : CSA approved, A600, Q600, LR47675, LR69529 (see table below)
<b>Protective treatment</b>	Normal duty, "TC" treatment
<b>Ambiant temperature</b>	Storage -40 to +70° C. Operation -25 to +70° C
<b>Operating position</b>	All positions
<b>Vibration resistance</b>	Conforming to IEC 68-2-6: <b>XD2/ A, C, E, L</b> 25g from 10 to 500 Hz; <b>XD2/ P, G</b> 5g from 40 to 500 Hz; <b>XD3P</b> 12g from 10 to 500 Hz
<b>Shock resistance</b>	Conforming to IEC 68-2-7: <b>XD2/ P, G</b> 20g, <b>XD2/ A, C, E, L</b> 50g, <b>XD3P</b> 50g
<b>Electric shock protection</b>	Class 1, conforming to IEC 536 and NF C 20-030
<b>Degrees of protection</b>	Heavy duty oil tight control units: <b>XD2/ A</b> meet EEMAC type 1 (IEC IP40) standards and 4 (IEC IP65) standards when requested. <b>XD2/ C, E, G, L, P</b> meet EEMAC type 4 (IEC IP65) standards. <b>XD3</b> meet EEMAC type 4, 13 (IEC IP55) + IP65 standards when requested.
<b>Mechanical life</b>	1 million operations

### Contact block characteristics

<b>Rated thermal current</b>	10 A conforming to CSA C 22-2 no 14, UL 508, TEC 337-1, NF C 63-140, VDE 0660-200
<b>Rated insulation voltage</b>	600 V ~ and --- conforming to CSA C 22-2 no 14
<b>Insulation category</b>	Group C conforming to NFC 20-040 and VDE 0110
<b>Contact operation</b>	<b>XD2/ P, G</b> and <b>XD3P</b> : slow make, slow break <b>XD2/ A, C, E</b> : 1 single pole snap action "NO-NC" contact to be wired within the same phase or polarity <b>XD2L</b> : "1 NC + 1 NC" sequential, slow make, slow break
<b>Resistance between terminals</b>	<b>XD2/ P, G</b> : ≤ 25 mΩ, <b>XD2/ A, C, E, L</b> : ≤ 20 mΩ <b>XD3P</b> : ≤ 25 mΩ
<b>Terminal referencing</b>	Conforming to CENELEC EN 50013
<b>Short circuit protection</b>	Fast action fuses, 10 A, form 1, class J, H or equivalent: Canada, U.S.A. 10 A cartridge fuses g1 orN, conforming to IEC 337-1 B, VDE 0660-200: Europe
<b>Cabling</b>	Screw and captive cable clamp terminals. Max. terminal capacity: 1 x AWG20 (2.5mm <sup>2</sup> ), or 2 x AWG16 (1.5mm <sup>2</sup> ) with or without cable end or by clips conforming to NF C20-120 (on request)

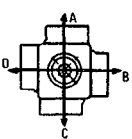
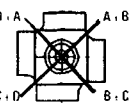
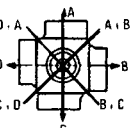
### Electrical ratings: A600 (A.C.), Q600 (D.C.)

Contact rating code designation	Thermal continuous test current Amps	Maximum current Amps												Maximum Volt Amperes		Maximum make or break Volt Amperes ≤ 300V
		120V		125V		240V		250V		480V		≤600V		Make	Break	
		Make	Break	Make	Break	Make	Break	Make	Break	Make	Break	Make	Break			
A600 (A.C.)	10	60	6.00	-	-	30	3.00	-	-	15	1.50	12	1.20	7200	720	-
Q600 (D.C.)	2.5	-	-	0.55	0.55	-	-	0.27	0.27	-	-	0.10	0.10	-	-	69

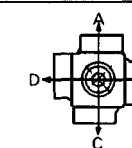
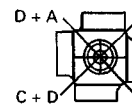
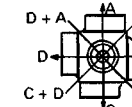


Characteristics : see page 5/57  
 Additional contacts : see page 5/61  
 Nameplates : see page 5/61  
 Dimensions/Wiring diag. : see pages 5/62-63

## Selection guide

Operational scheme	Description	Lever type:		Position arrangement
		Short	Long	
 <p>One NO-NC contact operated in each position XD2C</p>	No interlock	<b>XD2CC</b>	<b>XD2CL</b>	Replace dot (●) with the appropriate position function code listed below: 0 for blanked position 1 for spring return position 3 for maintained position A      B      C      D
	Latched in neutral	<b>XD2CD</b>		
	Electrical interlock in neutral	<b>XD2CE</b>	<b>XD2CF</b>	
	"Dead man" contact	<b>XD2CG</b>		
Complete unit catalog number <b>XD2C</b> ●    ●    ●    ●    ●				
Example: Short lever, no interlock switch, position A : spring return B : maintained, C : blanked, D : maintained = <b>XD2CC1303</b>				
 <p>Two NO-NC contacts operated in each position XD2-D</p>	No interlock	<b>XD2DC</b>	<b>XD2DL</b>	Replace dot (●) with the appropriate position function code listed below: 0 for blanked position 1 for spring return position 3 for maintained position A-B    B-C    C-D    D-A
	Latched in neutral	<b>XD2DD</b>		
	Electrical interlock in neutral	<b>XD2DE</b>	<b>XD2DF</b>	
	"Dead man" contact	<b>XD2DG</b>		
Complete unit catalog number <b>XD2D</b> ●    ●    ●    ●    ●				
Example: Short lever latched in neutral switch, position A-B: spring return, B-C: blanked, C-D : maintained , D-A : blanked = <b>XD2DD1030</b>				
 <p>One or two NO-NC contacts operated in each position XD2E</p>	No interlock	<b>XD2EC</b>	<b>XD2EL</b>	Replace dot (●) with the appropriate position function code listed below: By construction: 1 1 1 1 for all 8 spring return positions 3 3 3 3 for all 8 maintained positions
	Latched in neutral	<b>XD2ED</b>		
	Electrical interlock in neutral	<b>XD2EE</b>	<b>XD2EF</b>	
	"Dead man" contact	<b>XD2EG</b>		
Complete unit catalog number <b>XD2E</b> ●    ●    ●    ●    ●				
Example: Long lever, no interlock, 8 spring return positions = <b>XD2EL1111</b>				

## Price guide

Operational scheme	Number of contacts	Type of lever	Standard unit without interlock		Mechanical interlock at zero position		Electrical interlock at zero position		With "dead man" interlock on lever	
			Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price	Catalog No.	\$ Price
	2	Short	XD2CC ●●●●	184.00	XD2CD ●●●●	240.00	XD2CE ●●●●	264.00	XD2CG ●●●●	520.00
		Long	CL ●●●●	184.00	N/A		CF ●●●●	264.00	N/A	
	3	Short	XD2CC ●●●●	232.00	XD2CD ●●●●	288.00	XD2CE ●●●●	312.00	XD2CG ●●●●	616.00
		Long	CL ●●●●	232.00	N/A		CF ●●●●	312.00	N/A	
4	Short	XD2CC ●●●●	232.00	XD2CD ●●●●	288.00	XD2CE ●●●●	312.00	XD2CG ●●●●	616.00	
	Long	CL ●●●●	232.00	N/A		CF ●●●●	312.00	N/A		
	4	Short	XD2DC ●●●●	232.00	XD2DD ●●●●	288.00	XD2DE ●●●●	312.00	XD2DG ●●●●	616.00
		Long	EL ●●●●	232.00	N/A		DF ●●●●	312.00	N/A	
	4	Short	XD2EC ●●●●	232.00	XD2ED ●●●●	288.00	XD2EE ●●●●	312.00	XD2EG ●●●●	616.00
		Long	EL ●●●●	232.00	N/A		EF ●●●●	312.00	N/A	



**HOW TO ORDER**



Give the exact catalog no.  
 Example: **XD2DD1030**  
 Nameplate is not included in the price


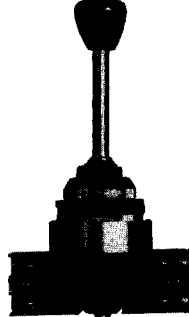
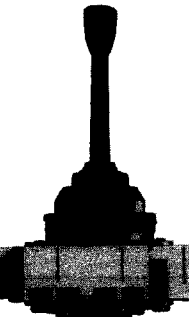
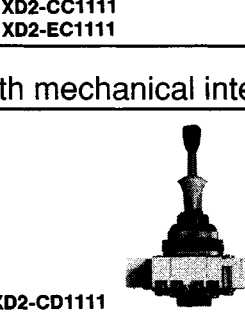
# Heavy duty joysticks Ø 30.5mm (1<sup>13</sup>/<sub>16</sub>"

XD2/ A, C, E, L


**XD2**  
**XD3**

Characteristics : see page 5/57  
Additional contacts : see page 5/61  
Nameplates : see page 5/61  
Dimensions/Wiring diag. : see pages 5/62-63

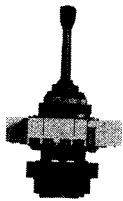
## Without interlock at neutral position

Description	Type of contact	Positions	Length of lever	Catalog No.	\$ Price
 <b>XD2-AC201</b>	1 "NO/NC" contact operated in each direction	2 directions maintained (A) ← 0 → (C)	68 mm	<b>XD2AC201H2</b> ①	224.00
			118 mm	<b>XD2AL201H2</b>	224.00
		2 directions spring return to neutral	68 mm	<b>XD2AC221H2</b> ①	224.00
			118 mm	<b>XD2AL221H2</b>	224.00
		2 directions spring return to neutral	68 mm	<b>XD2AC231H2</b> ①	240.00
			118 mm	<b>XD2AL231H2</b>	240.00
 <b>XD2-LC21</b>	1 "NO + 1 NO" contact operated in each direction (A) ← 0 → (C)	2 directions spring return to neutral	100 mm	<b>XD2LC21H2</b>	392.00
			 <b>XD2-LC21</b>	2 directions maintained A-C (A) ← 0 → (C)	80 mm
115 mm	<b>XD2CL3030H2</b>	184.00			
2 directions spring return to neutral A-C (A) ← 0 → (C)	80 mm	<b>XD2CC1010H2</b>		184.00	
	115 mm	<b>XD2CL1010H2</b>		184.00	
 <b>XD2-CC1111</b> <b>XD2-EC1111</b>	1 "NO-NC" each direction 1 or 2 "NO-NC" contacts operated in each direction	4 directions maintained A-B-C-D (A) ← 0 → (C) (B) ↑ 0 ↓ (D)	80 mm	<b>XD2CC3333H2</b>	232.00
			115 mm	<b>XD2CL3333H2</b>	232.00
		4 directions spring return to neutral A-B-C-D (A) ← 0 → (C) (B) ↑ 0 ↓ (D)	80 mm	<b>XD2CC1111H2</b>	232.00
			115 mm	<b>XD2CL1111H2</b>	232.00
8 directions spring return to neutral A-B-C-D or AC-BD-BC-AD (A) ← 0 → (C) (B) ↑ 0 ↓ (D)	80 mm	<b>XD2EC1111H2</b>	232.00		
	115 mm	<b>XD2EL1111H2</b>	232.00		

## With mechanical interlock at neutral position

 <b>XD2-CD1111</b>	1 "NO/NC" contact operated in each direction (A) ← 0 → (C) (B) ↑ 0 ↓ (D)	4 directions spring return to neutral A-B-C-D	80 mm	<b>XD2CD1111H2</b>	288.00
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## With electrical interlock at neutral position (1 dead end contact)

 <b>XD2-CE1111</b>	1 "NO/NC" contact operated in each direction (A) ← 0 → (C) (B) ↑ 0 ↓ (D)	4 directions spring return to neutral A-B-C-D	80 mm	<b>XD2CE1111H2</b>	312.00
			115 mm	<b>XD2CF1111H2</b>	312.00

① These units are available with a waterproof boot: Replace the (●) by a 9 (add 12.00 \$)  
Example: XD2AC2019H2.

### HOW TO ORDER



Give the exact catalog no.  
Example: **XD2AC201H2**  
Nameplate is not included in the price.



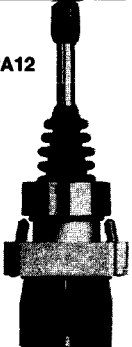
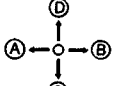


# XD2 XD3

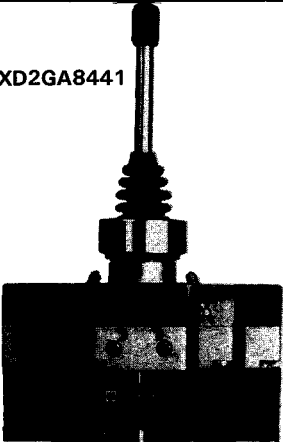
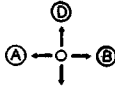
# Joysticks Ø 22.2mm (7/8") and Ø 30.5 mm (1 13/16")

Characteristics : see page 5/57  
 Additional contacts : see page 5/61  
 Nameplates : see page 5/61  
 Dimensions/Wiring diag. : see pages 5/62-63

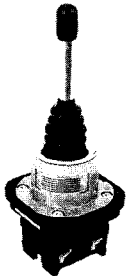
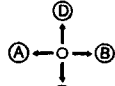
## XD2P Joysticks Ø 22.2 mm - non-interchangeable contacts (1 step)

XD2-PA12	Description		Length of lever	Catalog No.	\$ Price
	Type of contact	Positions			
	(A) ← 0 → (B) 1 "NO" contact per direction	2 directions, maintained	79 mm	<b>XD2PA12</b>	184.00
		2 directions, spring return to neutral	79 mm	<b>XD2PA22</b>	184.00
	 1 "NO" contact per direction	4 directions, maintained	79 mm	<b>XD2PA14</b>	232.00
		4 directions, spring return to neutral	79 mm	<b>XD2PA24</b>	232.00

## XD2G Joysticks Ø 22.2 mm - (2 speed) (2 step) - interchangeable contacts

XD2GA8441	Description		Length of lever	Catalog No.	\$ Price
	Type of contact	Positions			
	(A) ← 0 → (B) 2 "NO" contacts per step	2 directions, spring return to neutral central	87 mm	<b>XD2GA8241</b>	292.00
		2 directions, 1 <sup>st</sup> step maintained, 2 <sup>nd</sup> step spring return to 1 <sup>st</sup> step	87 mm	<b>XD2GA8251</b>	292.00
	 2 "NO" contacts per step	4 directions, spring return to neutral central	87 mm	<b>XD2GA8441</b>	340.00
		4 directions, 1 <sup>st</sup> step maintained, 2 <sup>nd</sup> step spring return to 1 <sup>st</sup> step	87 mm	<b>XD2GA8451</b>	340.00

## XD3P Joysticks Ø 30.5 mm - non-interchangeable (1 step)

	Description		Length of lever	Catalog No.	\$ Price
	Type of contact	Positions			
	(A) ← 0 → (B) 1 "NO" contact per direction	2 directions, maintained	87.3 mm	<b>XD3PA12</b>	192.00
		2 directions, spring return to neutral	87.3 mm	<b>XD3PA22</b>	192.00
	 1 "NO" contact per direction	4 directions, maintained	87.3mm	<b>XD3PA14</b>	240.00
		4 directions, spring return to neutral	87.3 mm	<b>XD3PA24</b>	240.00

### Other versions:

XD2A joystick with 2 "NO-NC" contacts per direction.  
 XD4 joystick with standard or extended handle for heavy duty (material handling).  
 XD9 joystick with 3 pole power contacts.  
 Joysticks for special applications.  
 Consult our nearest sales office.



HOW TO ORDER



Give the exact catalog no.  
 Example: **XD2PA12**

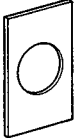
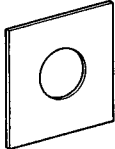
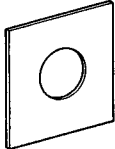
# Joysticks Ø 22.2mm (7/8") and Ø 30.5mm (1<sup>13</sup>/16")

## Nameplates and spare parts

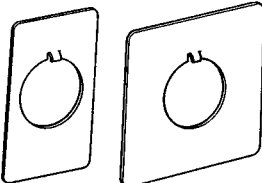
**XD2  
XD3**

Characteristics : see page 5/57  
Dimensions/Wiring diag. : see pages 5/62-63

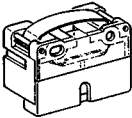
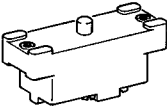
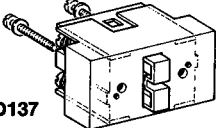

### Nameplate for XD2/G, P

 <b>ZD2-GY2201</b>	Description	For use with	Dimension mm	Catalog No.	\$ Price
	2 directions, no text black and red reversible	XD2PA	30 x 48	<b>ZD2GY2201</b>	4.00
2 directions, with text Black background ①	XD2GA	40 x 64	<b>ZD2GY5201</b>	4.00	
2 directions, with text red background ①	XD2PA	30 x 48	<b>ZD2GY2002</b>	16.00	
2 directions, with text red background ①	XD2GA	40 x 64	<b>ZD2GY5002</b>	16.00	
 <b>ZD2-GY4201</b>	4 directions, no text black and red reversible	XD2PA	48 x 48	<b>ZD2GY4201</b>	4.00
	4 directions with text black background ①	XD2GA	64 x 64	<b>ZD2GY6201</b>	4.00
 <b>ZD2-GY4201</b>	4 directions with text black background ①	XD2PA	48 x 48	<b>ZD2GY4002</b>	28.00
	4 directions with text black background ①	XD2GA	64 x 64	<b>ZD2GY6002</b>	28.00
	4 directions with text red background ①	XD2PA	48 x 48	<b>ZD2GY4004</b>	28.00
	4 directions with text red background ①	XD2GA	64 x 64	<b>ZD2GY6004</b>	28.00

### Nameplate for XD2/ A, C, E, L and XD3P

	Description	Positions		Catalog No.	\$ Price
	Aluminum nameplates anodic oxydation	2 directions (41 x 68 mm)	Without text		<b>XD2CZ02</b>
With text ②				<b>XD2CZ04</b>	10.40
4 directions (68 x 68 mm)		Without text		<b>XD2CZ021</b>	2.40
		With text ③		<b>XD2CZ041</b>	10.40

### Additional contacts

 <b>XC1-ZP4905</b>	 <b>XC1-ZA2</b>	 <b>ZC1-BD137</b>	 <b>ZB2-BE101</b>	Description	For use with	Contacts	Catalog No.	\$ Price
				Contact blocks "NO / NC" snap action	XD2A	Blade protected by snap-on cover	<b>XC1ZP4905</b>	40.00
"NO + NO" sequenced	XD2/ C, E	Limit contact	<b>XC1ZP2</b>	40.00				
	XD2/ C, E	Basic double break contact	<b>XC1ZA2</b>	44.00				
1 NO	XD2L	—	<b>ZC1BD137</b>	80.00				
1 NO	XD2G	—	<b>ZB2BE101</b>	12.00				
1 NC	XD2G	—	<b>ZB2BE102</b>	12.00				

① To be specified when ordering: 2 lines of 11 characters maximum per direction.

② To be specified when ordering: 2 lines of 18 characters maximum per direction.

③ To be specified when ordering: 2 lines of 15 characters maximum per direction.

HOW TO ORDER



Give the exact catalog no.  
Example: **ZD2GY2201**



**SENTRONIC** AG

Produkte, Support und Service

Ruggholzli 2  
CH - 5453 Busslingen

Tel. +41 (0)56 222 38 18  
Fax +41 (0)56 222 10 12

mailbox@sentronic.com  
www.sentronic.com

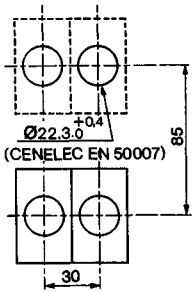
# XD2 XD3

# Joysticks Ø 22.2mm (7/8") and 30.5 mm (1 13/16")

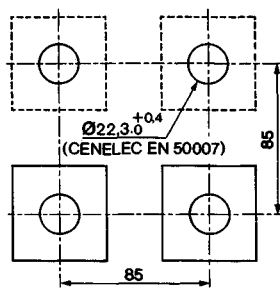
## Dimensions, wiring diagrams

Catalog No. : see pages 5/58 to 61  
Characteristics : see page 5/57

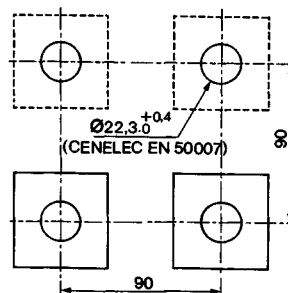
**XD2PA (2 directions)**



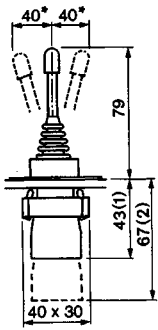
**XD2PA (4 directions)**



**XD2GA (2 and 4 directions)**

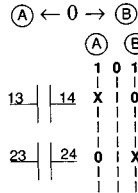


**XD2PA\*\* joysticks**

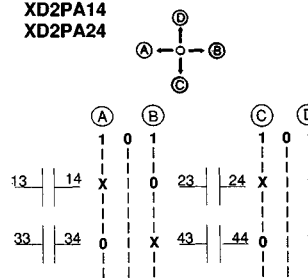


- 4 directions
- (1) 2 directions
- (2) 4 directions

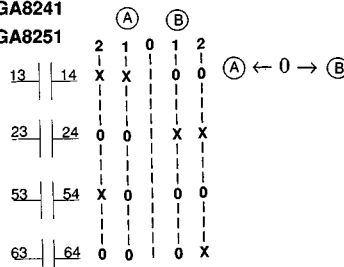
**XD2PA12  
XD2PA22**



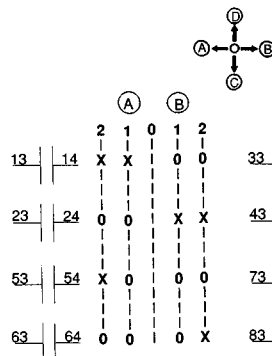
**XD2PA14  
XD2PA24**



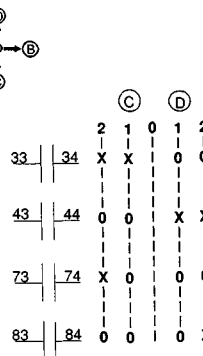
**XD2GA8241  
XD2GA8251**



**XD2GA8441**

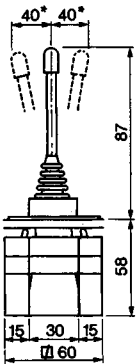


**XD2GA8451**

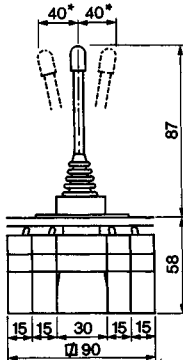


**XD2GA\*\***

- 1 notch
- 1 notch "NO" per direction

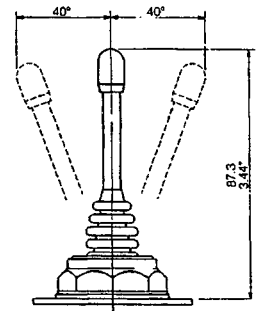


- 2 crans
- 2 contacts "NO" per direction

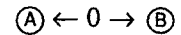


4 directions

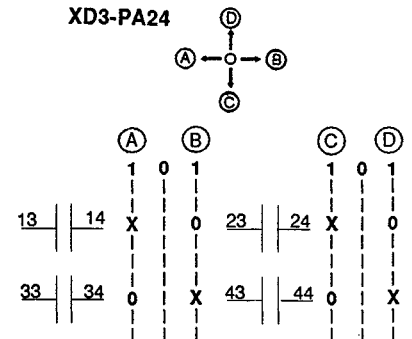
**joysticks  
XD3PA\*\***



**XD3-PA12  
XD3-PA22**



**XD3-PA14  
XD3-PA24**



Note: All dimensions are in millimeters. To convert to inches multiply by .03937.

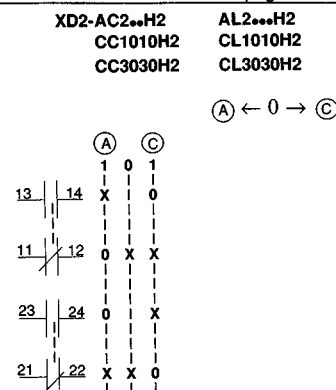
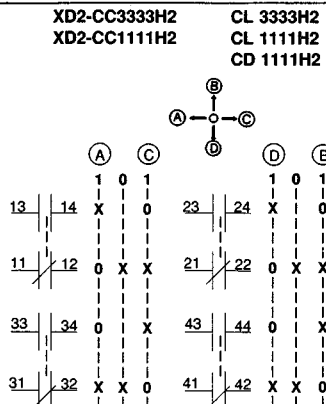
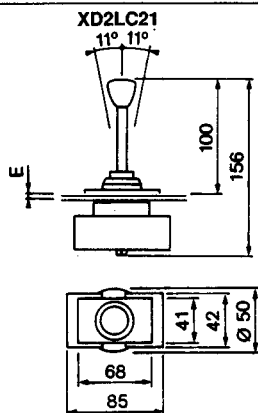
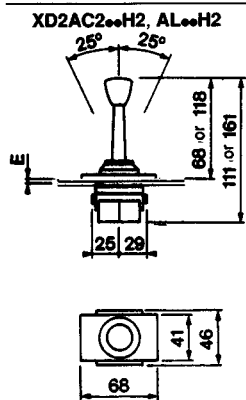


# Joysticks Ø 30.5mm (1<sup>13</sup>/<sub>16</sub>"

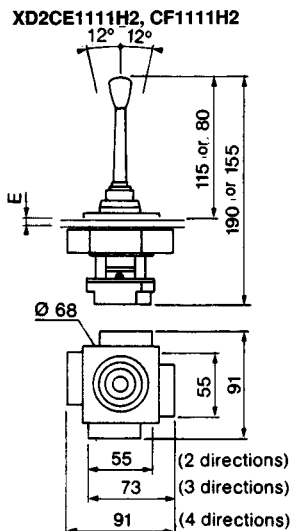
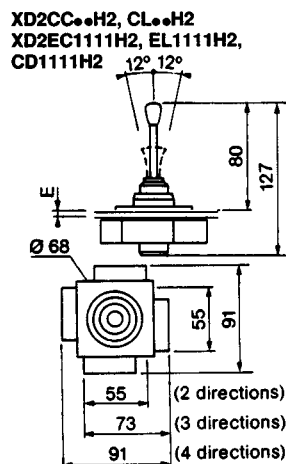
# XD2

## Dimensions, wiring diagrams

Catalog No. : see pages 5/58 to 61  
 Characteristics : see page 5/57



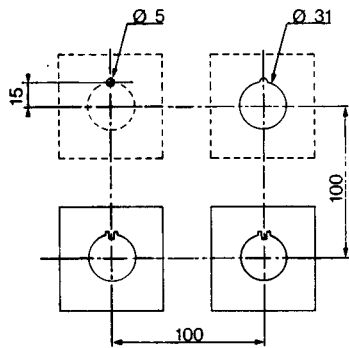
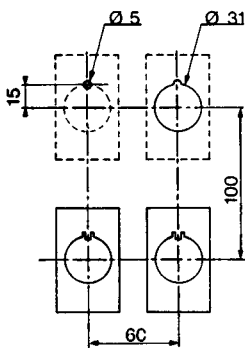
E: Thickness of panel: 1.5 to 6 mm



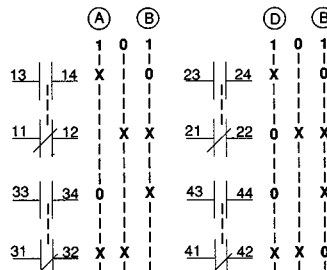
E: Thickness of panel: 1.5 to 6 mm

2 positions

4 positions

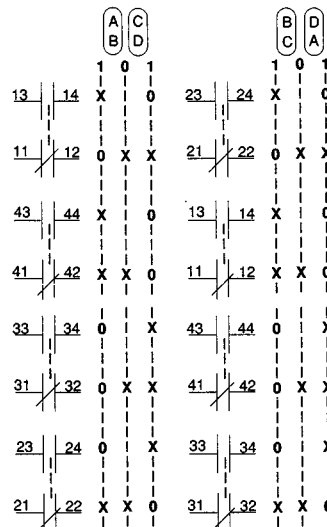
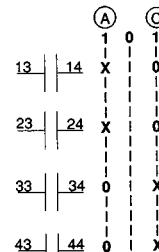


**XD2EC1111H2, EL1111H2**



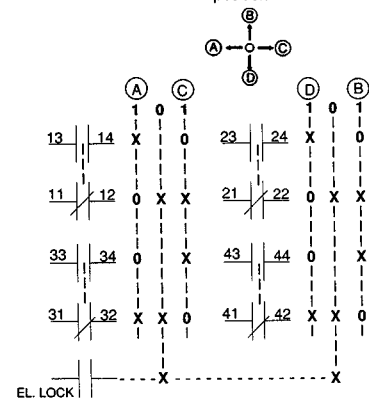
**XD2LC21**

A ← 0 → C



**XD2CE1111H2, CF1111H2**

Electrical interlock at neutral position



**Note:** All dimensions are in millimeters. To convert to inches multiply by .03937.

