

# XP

## Momentary Switches

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### XP

Characteristics	■ Long overtravel plunger ■ >3 mm contact gap ■ Reset spring option for increased reset security
Rating	Up to 400 VAC, 16 A
Dimensions (mm)	30 x 32 x 12
Actuator	Plain or mushroom plungers
Approvals	UL, CSA, ENEC



### Preferred Range

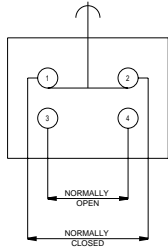
Ordering Reference	Actuating Force		Operating pos.		Terminal	Circuit	Actuator	Contacts	Electrical rating
XP2Z11	3.0 N	10.0 ozf	14.9 mm	0.587 in	Faston	CO	Straight plunger	Silver nickel	Up to 400 VAC, 16 A
XP4Z11	1.8 N	6.2 ozf	14.9 mm	0.587 in	Faston	NC	Straight plunger	Silver nickel	Up to 400 VAC, 16 A
XP5Z11	3.0 N	10.0 ozf	13.0 mm	0.511 in	Faston	NO	Straight plunger	Silver nickel	Up to 400 VAC, 16 A
XP2E1Z11	6.5 N	23.3 ozf	14.9 mm	0.587 in	Faston	CO	Mushroom plunger, reset	Silver nickel	Up to 400 VAC, 16 A
XP4E1Z11	3.8 N	13.4 ozf	14.9 mm	0.587 in	Faston	NC	Mushroom plunger, reset	Silver nickel	Up to 400 VAC, 16 A
XP5E1Z11	6.5 N	23.3 ozf	13.0 mm	0.511 in	Faston	NO	Mushroom plunger, reset	Silver nickel	Up to 400 VAC, 16 A
XP2E2Z11	3.0 N	10.0 ozf	14.9 mm	0.587 in	Faston	CO	Mushroom plunger, reset	Silver nickel	Up to 400 VAC, 16 A

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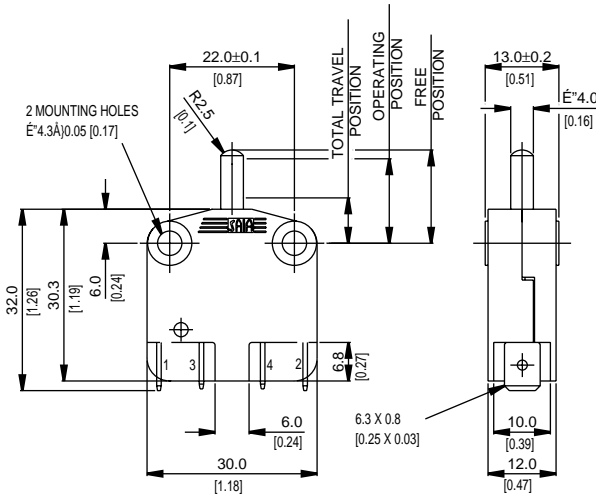
## Specifications

■ Housing	Glass fibre reinforced nylon
■ Plunger	Glass fibre reinforced nylon
■ Mechanism	Change-over, normally open, normally closed
■ Contacts	Silver
■ Terminals	6.3 mm (0.25 in) faston (quick connect) - brass
■ Temperature range °C	-20°C to +85°C
■ Mechanical life	10 <sup>7</sup> cycles minimum (impact free actuation)
■ Protection	IP40 (enclosure)
■ Mounting	Screw mounting
■ Actuators	Straight or mushroom plunger
■ Special features	Optional reset spring for increased reset security

Circuit diagram



Dimensions



## Recommended maximum electrical ratings

Voltage (max)	Resistive load A	Inductive load	Horsepower	Approval
250 VAC	16 (0.75 pf)	-	-	UL 1054/CSA 22.2 No. 55 - 6,000 operations
125 VAC	-	-	¼ HP (0.45 pf)	UL 1054 - Horsepower- 6,000 operations
250 VAC	-	-	¼ HP (0.45 pf)	UL 1054 - Horsepower- 6,000 operations
250 VAC	16	6	-	EN.60158-1 T85 (°C) 50,000 operations
400 VAC	16	4	-	EN.60158-1 T85 (°C) 10,000 operations
0-15 VDC	10	-	-	General rating - 50,000 operations
15-30 VDC	7	-	-	General rating - 50,000 operations

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## Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Total Travel Position Maximum		Over travel	
		N	ozf	N	ozf	mm	in	mm	in	mm	in	mm	in
Straight plunger	XP2Z11	3.0	10.0	5.5	19.7	15.3	0.602	14.9 ± 0.4	0.587 ± 0.016	8.0	0.315	4.5	0.177
	XP4Z11	1.75	6.2	5.5	19.7	15.3	0.602	14.9 ± 0.4	0.587 ± 0.016	8.0	0.315	6.5	0.256
	XP5Z11	3.0	10.0	5.5	19.7	16.6	0.653	13.0 ± 0.4	0.511 ± 0.016	8.0	0.315	4.5	0.177
Mushroom plunger with reset spring	XP2E1Z11	6.5	23.3	9.0	32.3	15.3	0.602	14.9 ± 0.4	0.587 ± 0.016	10.5	0.413	2.1	0.082
	XP4E1Z11	3.75	13.4	9.0	32.3	15.3	0.602	14.9 ± 0.4	0.587 ± 0.016	10.5	0.413	4.0	0.157
	XP5E1Z11	6.5	23.3	9.0	32.3	16.6	0.653	13.0 ± 0.4	0.511 ± 0.016	10.5	0.413	2.1	0.082
Mushroom plunger	XP2E2Z11	3.0	10.0	5.5	19.7	15.3	0.602	14.9 ± 0.4	0.587 ± 0.016	8.6	0.339	4.0	0.157

## Ordering Reference

Type	XP XPS	Positive action
Circuit	2 42 52	Change-over Normally closed Normally open
Actuators	No symbol E1 E2	Straight plunger Mushroom plunger with reset spring Mushroom plunger
Approvals	Z11	UL, cUL, CSA and ENEC

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