

ABB Push Button Pilot Device and Limit Switch Price List PDF

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This section was extracted without changing product descriptions, prices or technical content.

Limit switches



ABB limit switches are the easiest reliable way to convert mechanical movements into electrical signals. Use our wide offer to match your application.



Reliable in extreme conditions

Ready for anything

Plastic or metal casing limit switches are designed to operate in the most difficult environments. A high degree of protection up to IP67 and the positive contact opening, guarantee reliable operation.



Continuous operation

Keep your installation running 24 hours a day

Limit switches secure your uptime. Their high mechanical durability can handle up to 30 million operations with contacts that are mechanically linked to actuators.



Easy to install

Easy to use

Limit switches are easy to install and to use, thanks to their three different types of electrical connections and cable length, in order to satisfy every design specifications.

Limit switches

LS2..

Compact

30 mm width - Pre-wired

IP67 - Plastic casing - Double insulation ☐

IP67 - Metal casing



LS3..

Standard

30 mm width - Cable inlet

IP65 - Plastic casing - Double insulation ☐

IP66 - Metal casing



LS4..

Standard reinforced

40 mm width - Cable inlet

IP65 - Plastic casing - Double insulation ☐

IP66 - Metal casing



Pilot devices

Pilot Devices Offering

ABB Pilot Devices offer both modular and compact range of pushbuttons. Both feature the same front-of-panel design and appear consistent when combined.

Modular range, features a wide range of operators that can be combined with high flexibility. The unique snap-on design promotes simple and fast assembly.

Compact range features an all-in-one construction and rugged design for added simplicity and ease of installation.



Modular range

Technical data compact range

Standard and approvals	
IEC / EN 60947-1	Low-voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
IEC / EN 60947-5-5	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function
IEC / EN 60073	Basic and safety principles for man-machine
IEC / EN 60529	Degrees of protection provided by enclosures (IP Code)
EN 50013	Low-voltage switchgear and controlgear for industrial use - Terminal marking and distinctive number for particular control switches
DIN 40050-9	Road vehicles; degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Pilot device:	IEC/EN DIN	UL/CSA
Pushbutton	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Selector switch	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Pilot light	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Emergency stops	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Terminals	IP20	

Temperature

Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C

Technical data

Cable connections

Operator	Cable terminal
Pushbutton Selector switch Emergency stop	Plus-minus Pozidriv No. 2 Connectable area: min. 1 x 0.5 mm ² /1 x AWG22 max. 2 x 1.5 mm ² /2 x AWG14
Tightening torque	
Operators, M22	Min. 2 Nm / Max. 2.3 Nm
Pushbutton and selector switch	Cable terminals M3, 0.8 Nm
Pilot light	Cable terminals M3.5, 0.9 Nm
Emergency stop	Cable terminals M3, 0.8 Nm

Electrical data

Electrical ratings

Contacts

Ratings as per IEC 60947-5-1

Rated insulation voltage, U _i	300 V
Rated thermal current, I _{th}	5 A
Rated operational current, I _e utilization category AC-15	at: 240 V 1 A
Rated operational current, I _e utilization category DC-13,	at: 24 V 0.3 A at: 125 V 0.2 A

Ratings as per UL, CSA, NEMA

	C300 AC	R300 DC
Rated insulation voltage	250 V	250 V
Rated thermal current	2.5 A	1 A
Rated operational current	at: 120 V 1.5 A at: 125 V 0.75 A at: 240 V at: 250 V	0.22 A 0.11 A

Short-circuit protection

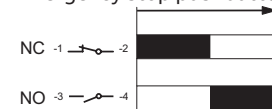
Max. fuse at 1 kA	gG 10A
Make-and-break contacts	

Pushbutton



■ = Closed contact

Emergency stop pushbutton



■ = Closed contact

LEDs (for both compact and modular)

Service life for LED's means number of service hours until the brightness has been reduced down 50 %. Service life: 50 000 h

White LEDs	x=0.31 Y=3.2 means the position of color in the ICI Chromaticity Diagram
Over voltage on LEDs	10 % over voltage is acceptable without affecting the service life
Voltage peaks on LEDs	Voltage peaks up to 1000 V Current peaks up to 500 mA during a few msec
Gloaming light	All integrated LEDs have a function built-in to cut leakage currents

Mechanical data

Mechanical life

Pushbuttons, selector switches	500,000 operations
Emergency stop pushbutton	50,000 operations

Pilot devices

Compact range

Order example:
 Ex 1: Type CP1-10 ■-10, to order color red replace ■ with R: CP1-10 R-10
 Ex 2: Ordering code 1SFA619100R101 □ To order color red replace □ with 1: 1SFA619100R1011 ■

Color codes						
	Red ●	Green ●	Yellow ●	Blue ●	White ○	Black ●
Type ■	R	G	Y	L	W	B
Ordering code □	1	2	3	4	5	6

Non-illuminated flush pushbutton

	Type	Pack size	Ordering code	L.P.(₹)
Momentary				
1 NO	CP1-10 □-10	1 X 10	1SFA619100R101 □	198
2 NO	CP1-10 □-20	1 X 10	1SFA619100R102 □	303
1 NC	CP1-10 □-01	1 X 10	1SFA619100R104 □	198
2 NC	CP1-10 □-02	1 X 10	1SFA619100R105 □	303
1 NO+1 NC	CP1-10 □-11	1 X 10	1SFA619100R107 □	303
Maintained				
1 NO	CP2-10 □-10	1 X 10	1SFA619101R101 □	290
2 NO	CP2-10 □-20	1 X 10	1SFA619101R102 □	330
1 NC	CP2-10 □-01	1 X 10	1SFA619101R104 □	278
2 NC	CP2-10 □-02	1 X 10	1SFA619101R105 □	330
1 NO+1 NC	CP2-10 □-11	1 X 10	1SFA619101R107 □	357

Non-illuminated extended pushbutton

	Type	Pack size	Ordering code	L.P.(₹)
Momentary				
1 NO	CP3-10 ■-10	1 X 10	1SFA619102R101 □	225
2 NO	CP3-10 ■-20	1 X 10	1SFA619102R102 □	330
1 NC	CP3-10 ■-01	1 X 10	1SFA619102R104 □	251
2 NC	CP3-10 ■-02	1 X 10	1SFA619102R105 □	330
1 NO+1 NC	CP3-10 ■-11	1 X 10	1SFA619102R107 □	357
Maintained				
1 NO	CP4-10 ■-10	1 X 10	1SFA619103R101 □	290
2 NO	CP4-10 ■-20	1 X 10	1SFA619103R102 □	330
1 NC	CP4-10 ■-01	1 X 10	1SFA619103R104 □	290
2 NC	CP4-10 ■-02	1 X 10	1SFA619103R105 □	343
1 NO+1 NC	CP4-10 ■-11	1 X 10	1SFA619103R107 □	382



Pilot devices

Compact range



Pilot light with integrated LED

Type	Pack size	Ordering code	L.P.(₹)
6.3V,DC			
CL2-506R	1 X 10	1SFA619403R5061 ■	339
CL2-506G	1 X 10	1SFA619403R5062 ■	
CL2-506iY	1 X 10	1SFA619403R5060 ■	
CL2-506L	1 X 10	1SFA619403R5064 ■	655
CL2-506C	1 X 10	1SFA619403R5068 ■	361
CL2-506A	1 X 10	1SFA619403R5069 ■	339
12V, DC			
CL2-501R	1 X 10	1SFA619403R5011 ■	339
CL2-501G	1 X 10	1SFA619403R5012 ■	
CL2-501iY	1 X 10	1SFA619403R5010 ■	
CL2-501L	1 X 10	1SFA619403R5014 ■	655
CL2-501C	1 X 10	1SFA619403R5018 ■	349
CL2-501A	1 X 10	1SFA619403R5019 ■	339
24VAC/DC			
CL2-502R	1 X 10	1SFA619403R5021	314
CL2-502G	1 X 10	1SFA619403R5022	
CL2-502iY	1 X 10	1SFA619403R5020	
CL2-502L	1 X 10	1SFA619403R5024	391
CL2-502C	1 X 10	1SFA619403R5028	314
CL2-502A	1 X 10	1SFA619403R5029	
48-60 VAC/ DC			
CL2-507R	1 X 10	1SFA619403R5071	302
CL2-507G	1 X 10	1SFA619403R5072	
CL2-507iY	1 X 10	1SFA619403R5070	
CL2-507L	1 X 10	1SFA619403R5074	540
CL2-507C	1 X 10	1SFA619403R5078	302
CL2-507A	1 X 10	1SFA619403R5079	
110-130 V, AC			
CL2-513R	1 X 10	1SFA619403R5131	339
CL2-513G	1 X 10	1SFA619403R5132	
CL2-513iY	1 X 10	1SFA619403R5130	
CL2-513L	1 X 10	1SFA619403R5134	632
CL2-513C	1 X 10	1SFA619403R5138	339
CL2-513A	1 X 10	1SFA619403R5139	

Pilot light with integrated LED

Type	Pack size	Ordering code	L.P.(₹)
110-130 V, DC			
CL2-515R	1 X 10	1SFA619403R5151	339
CL2-515G	1 X 10	1SFA619403R5152	
CL2-515iY	1 X 10	1SFA619403R5150	
CL2-515L	1 X 10	1SFA619403R5154	609
CL2-515C	1 X 10	1SFA619403R5158	339
CL2-515A	1 X 10	1SFA619403R5159	
220 V, DC			
CL2-520R	1 X 10	1SFA619403R5201	339
CL2-520G	1 X 10	1SFA619403R5202	
CL2-520iY	1 X 10	1SFA619403R5200	
CL2-520L	1 X 10	1SFA619403R5204	609
CL2-520C	1 X 10	1SFA619403R5208	339
CL2-520A	1 X 10	1SFA619403R5209	
230 V, AC			
CL2-523R	1 X 10	1SFA619403R5231	339
CL2-523G	1 X 10	1SFA619403R5232	
CL2-523iY	1 X 10	1SFA619403R5230	
CL2-523L	1 X 10	1SFA619403R5234	655
CL2-523C	1 X 10	1SFA619403R5238	339
CL2-523A	1 X 10	1SFA619403R5239	
380 -415 V, AC			
CL2-542R	1 X 10	1SFA619403R5421	349
CL2-542G	1 X 10	1SFA619403R5422	
CL2-542iY	1 X 10	1SFA619403R5420	
CL2-542L	1 X 10	1SFA619403R5424	655
CL2-542C	1 X 10	1SFA619403R5428	349
CL2-542A	1 X 10	1SFA619403R5429	
Rated voltage 230 V AC with 60 V anti-inductive voltage			
CL2-623R	1 X 10	1SFA619403R6231	386
CL2-623G	1 X 10	1SFA619403R6232	
CL2-623iY	1 X 10	1SFA619403R6230	
CL2-623L	1 X 10	1SFA619403R6234	665
CL2-623C	1 X 10	1SFA619403R6238	386

■ Stock items

Pilot devices

Compact range



Non-illuminated black selector switch with plastic bezel

Selector switch

	Type	Pack size	Ordering code	L.P. (₹)
Maintained / Two-positions 				
1 NO	C2SS1-10B-10	1 X 10	1SFA619200R1016	501
2 NO	C2SS1-10B-20	1 X 10	1SFA619200R1026	552
1 NC	C2SS1-10B-01	1 X 10	1SFA619200R1046	501
2 NC	C2SS1-10B-02	1 X 10	1SFA619200R1056	552
1 NO+1 NC	C2SS1-10B-11	1 X 10	1SFA619200R1076	
Maintained / Two-positions 				
1 NO	C2SS2-10B-10	1 X 10	1SFA619201R1016	501
2 NO	C2SS2-10B-20	1 X 10	1SFA619201R1026	552
1 NC	C2SS2-10B-01	1 X 10	1SFA619201R1046	501
2 NC	C2SS2-10B-02	1 X 10	1SFA619201R1056	552
1 NO+1 NC	C2SS2-10B-11	1 X 10	1SFA619201R1076	
Momentary / Two-positions 				
1 NO	C2SS3-10B-10	1 X 10	1SFA619202R1016	474
2 NO	C2SS3-10B-20	1 X 10	1SFA619202R1026	552
1 NC	C2SS3-10B-01	1 X 10	1SFA619202R1046	474
2 NC	C2SS3-10B-02	1 X 10	1SFA619202R1056	552
1 NO+1 NC	C2SS3-10B-11	1 X 10	1SFA619202R1076	
Maintained / Three-positions 				
2 NO	C3SS1-10B-20	1 X 10	1SFA619210R1026	552
2 NC	C3SS1-10B-02	1 X 10	1SFA619210R1056	
1 NO+1 NC	C3SS1-10B-11	1 X 10	1SFA619210R1076	
Momentary / Three-positions 				
2 NO	C3SS2-10B-20	1 X 10	1SFA619211R1026	552
2 NC	C3SS2-10B-02	1 X 10	1SFA619211R1056	
1 NO+1 NC	C3SS2-10B-11	1 X 10	1SFA619211R1076	
Momentary / Three-positions 				
2 NO	C3SS3-10B-20	1 X 10	1SFA619212R1026	552
2 NC	C3SS3-10B-02	1 X 10	1SFA619212R1056	
1 NO+1 NC	C3SS3-10B-11		1SFA619212R1076	

Emergency stop pushbutton - Red

Description	Type	Pack size	Ordering code	L.P.(₹)
Twist release				
1 NC Ø 30 mm	CE3T-10R-01	1	1SFA619500R1041 ■	357
2 NC Ø 30 mm	CE3T-10R-02	1	1SFA619500R1051	461
1NO+1NC Ø 30 mm	CE3T-10R-11	1	1SFA619500R1071	435
Pull release				
2 NC Ø 30 mm	CE3P-10R-02	1	1SFA619501R1051	435
1NO+1NC Ø 30 mm	CE3P-10R-11	1	1SFA619501R1071	526
Key release: Ronis 455, key code 71				
2 NC Ø 30 mm	CE3K1-10R-02	1	1SFA619502R1051	1,367
1NO+1NC Ø 30 mm	CE3K1-10R-11	1	1SFA619502R1071	
Twist release				
1 NC Ø 40 mm	CE4T-10R-01	1	1SFA619550R1041 ■	370
2 NC Ø 40 mm	CE4T-10R-02	1	1SFA619550R1051 ■	488
1NO+1NC Ø 40 mm	CE4T-10R-11	1	1SFA619550R1071 ■	
Pull release				
2 NC Ø 40 mm	CE4P-10R-02	1	1SFA619551R1051 ■	488
1NO+1NC Ø 40 mm	CE4P-10R-11	1	1SFA619551R1071	
Key release: Ronis 455, key code 71				
2 NC Ø 40 mm	CE4K1-10R-02	1	1SFA619552R1051	1,458
1NO+1NC Ø 40 mm	CE4K1-10R-11	1	1SFA619552R1071	



Non-illuminated emergency stop pushbutton, 30 mm



Non-illuminated emergency stop pushbutton, 40 mm

Pilot devices

Compact range



Non-illuminated machine stop pushbutton, pull release, 30 mm



Non-illuminated machine stop pushbutton, push release, 30 mm



Machine stop - Black

Description	Type	Pack size	Ordering code	L.P.(₹)
Twist release				
1NO+1NC Ø 30 mm	CE3T-10B-11	1	1SFA619500R1076	449
Pull release				
1NO+1NC Ø 30 mm	CE3P-10B-11	1	1SFA619501R1076	1,025
Key release: Ronis 455, Key code 71				
1NO+1NC Ø 30 mm	CE3K1-10B-11	1	1SFA619502R1076	1,443
Twist release				
1NO+1NC Ø 40 mm	CE4T-10B-11	1	1SFA619550R1076	449
Pull release				
1NO+1NC Ø 40 mm	CE4P-10B-11	1	1SFA619551R1076	1,025
Key release: Ronis 455, Key code 71				
1NO+1NC Ø 40 mm	CE4K1-10B-11	1	1SFA619552R1076	1,433

Buzzer

Description	Sound output	Rated current mA	Type	Pack size	Ordering code	L.P.(₹)
Rated voltage 24 V, AC/DC						
● Black	Continuous	40	CB1-620B	1	1SFA619600R6206	2,049
● Black	Pulsation	48	CB1-630B	1	1SFA619600R6306	
Rated voltage 230 V, AC						
● Black	Continuous	40	CB1-623B	1	1SFA619600R6236	2,049
● Black	Pulsation	40	CB1-633B	1	1SFA619600R6336	
Rated voltage 110-130 V, DC						
● Black	Continuous	15	CB1-622B	1	1SFA619600R6226	2,049
● Black	Pulsation	15	CB1-632B	1	1SFA619600R6326	
Rated voltage 110-130 V, AC						
● Black	Continuous	40	CB1-621B	1	1SFA619600R6216	2,049
● Black	Pulsation	45	CB1-631B	1	1SFA619600R6316	

Assembled compact emergency stop enclosures

Description	Type	Pack size	Ordering code	L.P.(₹)
1-seat plastic enclosure (yellow)				
  Twist release. Red button 2 NC	CEPY1-1001	1	1SFA619821R1001	6,276
  Pull release. Red button 2 NC	CEPY1-1002	1	1SFA619821R1002	
Emergency stop enclosure with shroud				
  Twist release. Red button 2 NC	CEPY1-2002	1	1SFA619821R2002	6,722
  Pull release. Red button 2 NC	CEPY1-2001	1	1SFA619821R2001	
1-seat plastic enclosure with black mushroom pushbutton (dark grey)				
  Twist release. Black button 1 NO + 1 NC	CEP1-1001	1	1SFA619811R1001	5,068
  Pull release. Black button 1 NO + 1 NC	CEP1-1002	1	1SFA619811R1002	2,837
Machine stop enclosure with shroud				
  Twist release. Black button 1 NO + 1 NC	CEP1-2001	1	1SFA619811R2001	5,568
  Pull release. Black button 1 NO + 1 NC	CEP1-2002	1	1SFA619811R2002	3,323

■ Stock items

Pilot devices

Technical data modular range

Standard and approvals

IEC / EN 60947-1	Low-voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
IEC / EN 60947-5-5	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function
IEC / EN 60073	Basic and safety principles for man-machine interface, marking and identification - Coding principles for indicators and actuators
IEC / EN 60529	Degrees of protection provided by enclosures (IP Code)
EN 50013	Low-voltage switchgear and controlgear for industrial use - Terminal marking and distinctive number for particular control switches
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Operators	IEC/EN	UL/CSA
Pushbutton	IP 66	Type 1, 3R, 4, 4X, 12, 13
Double pushbutton	IP 66	Type 1, 3R, 4, 4X, 12, 13
Mushroom	IP 66	Type 1, 3R, 4, 4X, 12, 13
Emergency stop	IP 66	Type 1, 3R, 4, 4X, 12, 13
Selector switch	IP 66	Type 1, 3R, 4, 4X, 12, 13
Key operated selector switch	IP 66	Type 1, 3R, 4, 4X, 12
Toggle switch	IP 66	Type 1, 3R, 4, 4X, 12, 13
Extreme duty pushbutton	-	Type 1, 3R, 4, 4X
Reset button	IP 66	Type 1, 3R, 4, 4X, 12, 13
Joystick	IP 66, 67, 69K	Type 1, 4X (indoor), 12, 13
Pilot lights	IP 66	Type 1, 3R, 4, 4X, 12, 13
Buzzer	IP 65	Type 4X
Potentiometer	IP 66	Type 1, 3R, 4, 4X, 12, 13
Contact block and transformer block	IP 20	-
Plastic enclosures	IP 66	Type 1, 3R, 4, 4X, 12, 13
Metallic enclosures	IP 66, 67, 69K	-

Temperature

Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C

Technical data

Terminals	
Plus-minus Pozidriv No.2 screw with DIN-washer	
Connectable area	min. 1 x 0.5 mm ² AWG 20 max. 2 x 2.5 mm ² /2 x AWG14

Tightening torque

Operators, M22	Min. 2 Nm / Max. 2.3 Nm
Cable terminals	0.9 Nm
Recommended maximum number of blocks: 6	

Electrical data

Standards contact blocks	
Mechanical endurance	10 million operations
Self-cleaning contacts of silver, NC contact with positive opening. At voltages and currents below 24 V and 5.6 mA, we recommend our micro switch blocks or as an alternative, gold plated contacts.	

Ratings as per IEC 60947-5-1

Rated insulation voltage, U _i	690 V	
Rated thermal current, I _{th}	10 A	
Rated operational current, I _e utilization category AC 15,	at: 120 V	8 A
	at: 230 V	6 A
	at: 400 V	4 A
	at: 690 V	2 A
Rated operational current, I _e utilization category DC 13,	at: 24 V	5 A
	at: 125 V	1.1 A
	at: 250 V	0.55 A

Ratings as per UL, CSA, NEMA		A600 AC	Q600 DC
Rated insulation voltage		600 V	600 V
Rated thermal current		10 A	2.5 A
Rated operational current	at: 120 V	6 A	at: 125 V 0.55 A
	at: 240 V	3 A	at: 250 V 0.27 A
	at: 480 V	1.5 A	at: 480 V 0.10 A
	at: 600 V	1.2 A	at: 600 V 0.10 A

Contact resistance	< 25 mΩ
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Compulsory function test	at: 5V, 16 mA
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Micro switch block / ratings as per IEC 60947-5-1

Rated insulation voltage, U _i	125 V	
Rated thermal current, I _{th}	3 A	
Rated operational current, I _e utilization category AC 14,	at: 125 V	0.5 A
	at: 24 V	0.3 A
Rated operational current, I _e utilization category DC 13,	at: 24 V	0.1 A
	at: 24 V	0.1 A
Minimum switching capacity	3 V DC	1 mA

Ratings as per UL 508

	125 V AC	3 A
	60 V DC	0.2 A
	48 V DC	0.1 A

Short circuit protection

Max. fuse at 1 kA	gG 16A
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Note: LEDs see technical data compact range

Mechanical data

Mechanical life	
Pushbuttons, momentary mushroom	2 million operations
Selector switches. Present standard (no operation of center contact)	500,000 operations
With operation of center contact	250,000 operations
	150,000 operations
Maintained mushroom, pushbutton, key operated selector switch and double pushbutton	500,000 operations
Emergency stop	100,000 operations
Toggle switch	1 million operations

Pilot devices

Modular range

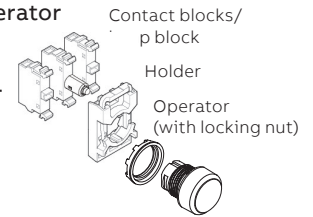


Modular product features

- Widest range of integrated LEDs on the market
- Parts of Range IP 66, 67, 69K
- All range & UL Type 1, 3R, 4, 4X, 12, 13
- Snap-on feature reduces installation time
- Quick release contact holder
- Several bezel colors
- Unique low energy solutions, including wiping action

How to order standard operators:

- Non-illuminated operator
- + holder
- + contact block(s)
- Illuminated operator
- + holder
- + contact block(s)
- + lamp block



*Only for illuminated operator

How to order Bezel:

Bezel options	Type	Ordering code
Black plastic	MPX-10X	1SFA611 10X R1XXX

Color codes

	Red ●	Green ●	Yellow ●	Blue ●	White ○	Black ●	Clear ○
Type ■	R	G	Y	L	W	B	C
Ordering code □	1	2	3	4	5	6	8

Ordering example:

Ex 1: Type MP1-10■, to order color red replace ■ with R: MP1-10R

Ex 2: Ordering code 1SFA611100R1001 n, to order color red replace □ with 1: 1SFA619100R1001

Operator : Flush button Non-illuminated push button

	Type	Pack size	Ordering code	L.P. (₹)
Momentary	MP1-10 ■	1 X 10	1SFA611100R100 □	106
Maintained	MP2-10 ■	1 X 10	1SFA611101R100 □	159

Operator : Extended button Non-illuminated push button

Momentary	MP3-10 ■	1 X 10	1SFA611102R100 □	159
Maintained	MP4-10 ■	1 X 10	1SFA611103R100 □	159

Color codes

	Red ●	Green ●	Yellow ●	Blue ●	White ○	Black ●	Clear ○
Type ■	R	G	Y	L	W	B	C
Ordering code □	1	2	3	4	5	6	8

	Type	Pack size	Ordering code	L.P. (₹)
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Operator : Flush button illuminated push button

Momentary	MP1-11■	1 X 10	1SFA611100R110 □	146
	MP1-11AN	1 X 10	1SIN611100R1109	146
Maintained	MP2-11■	1 X 10	1SFA611101R110 □	186
	MP2-11AN	1 X 10	1SIN611101R1109	

Operator : Extended button illuminated push button

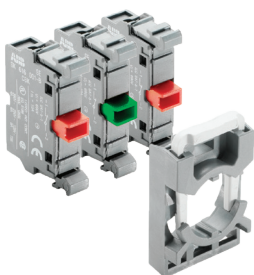
Momentary	MP3-11■	1 X 10	1SFA611102R110 □	
	MP3-11AN	1 X 10	1SIN611102R1109	
Maintained	MP4-11■	1 X 10	1SFA611103R110 □	186
	MP4-11AN	1 X 10	1SIN611103R1109	

Note:

1. Integrated LED block to be considered from MLBL range of suitable voltage from page no. 109

Separate holder

Holders for three blocks	MCBH-00	1 X 10	1SFA611605R1100	54
Contact blocks only (without holder)				
1 NO	MCB-10	1 X 10	1SFA611610R1001 ■	119
1 NC	MCB-01	1 X 10	1SFA611610R1010 ■	119



Blocks and holder

■ Stock items

Pilot devices

Modular range



LED lamp block with built-in leakage current protection

Operator : Pilot lights

	Type	Pack size	Ordering code	L.P.(₹)
● Red	ML1-100R	1 X 10	1SFA611400R1001 ■	119
● Green	ML1-100G	1 X 10	1SFA611400R1002 ■	
● Yellow	ML1-100Y	1 X 10	1SFA611400R1003 ■	
● Blue	ML1-100L	1 X 10	1SFA611400R1004	
○ White	ML1-100W	1 X 10	1SFA611400R1005	
● Amber	ML1-100AN	1 X 10	1SIN611400R1009	

Separate holder

	Type	Pack size	Ordering code	L.P.(₹)
Holders for three blocks	MCBH-00	1 X 10	1SFA611605R1100 ■	54

Lamp blocks with integrated LED

Rated voltage 24 V, AC/DC

	Type	Pack size	Ordering code	L.P.(₹)
● Red	MLBL-01R	1 X 10	1SFA611621R1011 ■	251
● Green	MLBL-01G	1 X 10	1SFA611621R1012 ■	
● Yellow	MLBL-01YN	1 X 10	1SIN611621R1013	579
● Blue	MLBL-01L	1 X 10	1SFA611621R1014 ■	
○ White	MLBL-01W	1 X 10	1SFA611621R1015 ■	278
● Amber	MLBL-01A	1 X 10	1SFA611621R1016	

Rated voltage 110-130 V, AC

	Type	Pack size	Ordering code	L.P.(₹)
● Red	MLBL-04R	1 X 10	1SFA611621R1041	251
● Green	MLBL-04G	1 X 10	1SFA611621R1042	
● Yellow	MLBL-04YN	1 X 10	1SIN611621R1043	552
● Blue	MLBL-04L	1 X 10	1SFA611621R1044	
○ White	MLBL-04W	1 X 10	1SFA611621R1045	278
● Amber	MLBL-04A	1 X 10	1SFA611621R1046	

Rated voltage 110-130 V, DC

	Type	Pack size	Ordering code	L.P.(₹)
● Red	MLBL-05R	1 X 10	1SFA611621R1051	251
● Green	MLBL-05G	1 X 10	1SFA611621R1052	
● Yellow	MLBL-05YN	1 X 10	1SIN611621R1053	579
● Blue	MLBL-05L	1 X 10	1SFA611621R1054	
○ White	MLBL-05W	1 X 10	1SFA611621R1055	278
● Amber	MLBL-05A	1 X 10	1SFA611621R1056	

Rated voltage 220 V, DC

	Type	Pack size	Ordering code	L.P.(₹)
● Red	MLBL-06R	1 X 10	1SFA611621R1061	251
● Green	MLBL-06G	1 X 10	1SFA611621R1062	
● Yellow	MLBL-06YN	1 X 10	1SIN611621R1063	579
● Blue	MLBL-06L	1 X 10	1SFA611621R1064	
○ White	MLBL-06W	1 X 10	1SFA611621R1065	251
● Amber	MLBL-06A	1 X 10	1SFA611621R1066	

Rated voltage 230 V, AC

	Type	Pack size	Ordering code	L.P.(₹)
● Red	MLBL-07R	1 X 10	1SFA611621R1071	251
● Green	MLBL-07G	1 X 10	1SFA611621R1072 ■	
● Yellow	MLBL-07YN	1 X 10	1SIN611621R1073	565
● Blue	MLBL-07L	1 X 10	1SFA611621R1074 ■	
○ White	MLBL-07W	1 X 10	1SFA611621R1075	251
● Amber	MLBL-07A	1 X 10	1SFA611621R1076	

Note: 48 V AC/DC, 60 V AC/DC, 380 V AC and 415 V AC L.P.(₹) s will be available upon request

■ Stock items

Pilot devices

Modular range



Operator : Emergency stop pushbutton - Red

	Type	Pack size	Ordering code	L.P.(₹)
Ø 30 mm / Non-illuminated				
Twist release	MPET3-10R	1	1SFA611520R1001	684
Pull release	MPEP3-10R	1	1SFA611521R1001	
Key release code 71/Ronis 455	MPEK3-11R	1	1SFA611522R1101	
Key release code 72/ Ronis 421	MPEK3-12R	1	1SFA611522R1201	1,301
Key release code 73/ Ronis 3433-E	MPEK3-13R	1	1SFA611522R1301	
Ø 40 mm / Non-illuminated				
Twist release	MPET4-10R	1	1SFA611523R1001	592
Pull release	MPEP4-10R	1	1SFA611524R1001	1,236
Key release code 71/Ronis 455	MPEK4-11R	1	1SFA611525R1101	1,262
Key release code 72/ Ronis 421	MPEK4-12R	1	1SFA611525R1201	
Key release code 73/ Ronis 3433-E	MPEK4-13R	1	1SFA611525R1301	
Ø 60 mm /Non-illuminated				
Twist release	MPMT4-10R	1	1SFA611513R1001	1051
Pull release	MPMP4-10R	1	1SFA611514R1001	855
Ø 40 mm / Illuminated				
Twist release	MPMT3-11R	1	1SFA611510R1101 ■	998
Pull release	MPMP3-11R	1	1SFA611511R1101	816
Ø 60 mm / Illuminated				
Twist release	MPMT4-11R	1	1SFA611513R1101	1,380
Pull release	MPMP4-11R		1SFA611514R1101	1,090

Refer holder and contact block configuration for standard operator from page no. 110

Operator : Machine stop pushbutton - Black

	Type	Pack size	Ordering code	L.P.(₹)
Ø 30 mm				
Twist release	MPET3-10B	1	1SFA611520R1006	697
Pull release	MPEP3-10B	1	1SFA611521R1006	
Key release	MPEK3-10B	1	1SFA611522R1106	
Ø 40 mm				
Twist release	MPET4-10B	1	1SFA611523R1006	697
Pull release	MPEP4-10B	1	1SFA611524R1006	

Refer holder and contact block configuration for standard operator from page no. 110

Operator : Double pushbutton

	Type	Pack size	Ordering code	L.P.(₹)
Upper Lower	Extended lower button / Non-illuminated			
I / O	MPD13-11B	1	1SFA611142R1106	724
START / STOP	MPD15-11B	1	1SFA611144R1106	
Upper Lower	Extended lower button / Illuminated			
I / O	MPD13-11C	1	1SFA611142R1108	1078
START / STOP	MPD15-11C	1	1SFA611144R1108	
Upper Lower	○ Upper Extended lower button / ● Lower Non-illuminated			
I / O	MPD17-11B	1	1SFA611146R1106	724

Refer holder and contact block configuration for standard operator

■ Stock items

Pilot devices

Modular range



Operator: non-illuminated black two-position selector switch

Type	Pack size	Ordering code	L.P.(₹)
Maintained / Short handle			
M2SS1-10B	1	1SFA611200R1006	474
Maintained / Short handle			
M2SS2-10B	1	1SFA611201R1006	474
Momentary / Short handle, spring return from C to B			
M2SS3-10B	1	1SFA611202R1006	488
Maintained / Long handle			
M2SS4-10B	1	1SFA611203R1006	1,407
Maintained / Long handle			
M2SS5-10B	1	1SFA611204R1006	1,407
Momentary / Long handle, spring return from C to B			
M2SS6-10B	1	1SFA611205R1006	1,433

Refer holder and contact block configuration for standard operator

Operator: non-illuminated black three-position selector switch

Type	Pack size	Ordering code	L.P.(₹)
Maintained / Short handle			
M3SS1-10B	1	1SFA611210R1006	474
Momentary / Short handle, spring return from A to B and C to B			
M3SS2-10B	1	1SFA611211R1006	488
Momentary / Short handle, spring return from C to B			
M3SS3-10B	1	1SFA611212R1006	488
Momentary / Short handle, spring return from A to B			
M2SS7-10B	1	1SFA611216R1006	488
Maintained / Long handle			
M3SS4-10B	1	1SFA611213R1006	1,407
Momentary / Long handle, spring return from A to B and C to B			
M3SS5-10B	1	1SFA611214R1006	1,433
Momentary / Long handle, spring return from C to B			
M3SS6-10B	1	1SFA611215R1006	1,787
Momentary / Long handle, spring return from A to B			
M2SS8-10B	1	1SFA611217R1006	1,314

Refer holder and contact block configuration for standard operator

Operator: non-illuminated black three-position selector switch with operation of center position

Type	Pack size	Ordering code	L.P.(₹)
Short handle			
M3SSC1-10B	1		513
M3SSC2-10B	1		
M3SSC3-10B	1		
M3SSC7-10B	1		
Long handle			
M3SSC4-10B	1		1,484
M3SSC5-10B	1		
M3SSC6-10B	1		

Refer holder and contact block configuration for standard operator

■ Stock items

Pilot devices

Modular range



Operator : Key operated selector switch - Black

Type	Pack size	Ordering code	L.P.(₹)		
Maintained / Two positions (The key can be removed in both position)					
71/Ronis 455	M2SSK1-101		1	1SFA611280R1001	1,090
72/Ronis 421	M2SSK1-102		1	1SFA611280R1002	
73/Ronis 3433-E	M2SSK1-103		1	1SFA611280R1003	
Random selection*	M2SSK1-104		1	1SFA611280R1004	
Maintained / Two positions (The key can be removed in position B only)					
71/Ronis 455	M2SSK2-101		1	1SFA611281R1001	1,078
72/Ronis 421	M2SSK2-102		1	1SFA611281R1002	
73/Ronis 3433-E	M2SSK2-103		1	1SFA611281R1003	
Random selection*	M2SSK2-104		1	1SFA611281R1004	
Momentary / Two positions, spring return from C to B (The key can be removed in position B only)					
71/Ronis 455	M2SSK3-101		1	1SFA611282R1001	1,196
72/Ronis 421	M2SSK3-102		1	1SFA611282R1002	
73/Ronis 3433-E	M2SSK3-103		1	1SFA611282R1003	
Random selection*	M2SSK3-104		1	1SFA611282R1004	

Refer holder and contact block configuration for standard operator

Operator : Key operated selector switch - Black

Type	Pack size	Ordering code	L.P.(₹)		
Maintained / Three positions (The key can be removed in both position)					
71/Ronis 455	M3SSK1-101		1	1SFA611283R1001	1,090
72/Ronis 421	M3SSK1-102		1	1SFA611283R1002	
73/Ronis 3433-E	M3SSK1-103		1	1SFA611283R1003	
Random selection*	M3SSK1-104		1	1SFA611280R1004	
Maintained / Three positions (The key can be removed in position B only)					
71/Ronis 455	M3SSK2-101		1	1SFA611284R1001	1,090
72/Ronis 421	M3SSK2-102		1	1SFA611284R1002	
73/Ronis 3433-E	M3SSK2-103		1	1SFA611284R1003	
Random selection*	M3SSK2-104		1	1SFA611284R1004	
Momentary / Three positions, spring return from C to B (The key can be removed in position B only)					
71/Ronis 455	M3SSK3-101		1	1SFA611285R1001	1,196
72/Ronis 421	M3SSK3-102		1	1SFA611285R1002	
73/Ronis 3433-E	M3SSK3-103		1	1SFA611285R1003	
Random selection*	M3SSK3-104		1	1SFA611285R1004	

Refer holder and contact block configuration for standard operator

Potentiometer - Black

Type	Pack size	Ordering code	L.P.(₹)
with resistor 5 kohm			
Black plastic MT-105B	1	1SFA611410R1056	5,739
with resistor 10 kohm			
Black plastic MT-110B	1	1SFA611410R1106	5,739
with resistor 50 kohm			
Black plastic MT-150B	1	1SFA611410R1506	6,460

1)



2)



3)



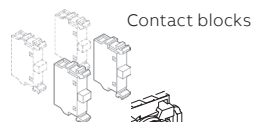
Toggle switch* - Black

Type	Pack size	Ordering code	L.P.(₹)
Maintained / Two-positions			
Black plastic MTS1-10B	1	1SFA611300R1006	1,025
Momentary / Three-positions			
Black plastic MTS2-10B	1	1SFA611301R1006	1,328
Maintained / Three-positions			
Black plastic MTS3-10B	1	1SFA611302R1006	1,025

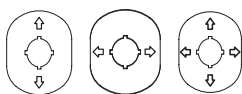
Pilot devices

Modular range

• Joystick (holder included)
+ contact blocks



Joystick
(holder included)



Micro switch block



Mounting tool



Protective cover

30 mm adaptor



Membrane of
silicon rubber

Joystick - Black

	Type	Pack size	Ordering code	L.P.(₹)
Maintained				
2 - position	MJS1-60B	1	1SFA611701R6006	5,554
4 - position	MJS5-60B	1	1SFA611705R6006	6,106
Spring return				
2 - position	MJS2-60B	1	1SFA611702R6006	5,554
4 - position	MJS6-60B	1	1SFA611706R6006	6,106
Maintained / Latching function				
2 - position	MJS7-60B	1	1SFA611707R6006	6,106
4 - position	MJS11-60B	1	1SFA611711R6006	7,051
Spring return / Latching function				
2 - position	MJS8-60B	1	1SFA611708R6006	6,106
4 - position	MJS12-60B	1	1SFA611712R6006	7,051
Legend plates for joystick				
2 - position	MA6-1240	1	1SFA611930R1240	488
2 - position	MA6-1241	1	1SFA611930R1241	
4 - position	MA6-1242	1	1SFA611930R1242	

Refer holder and contact block configuration for standard operator

Micro switch blocks

Description	Type	Pack size	Ordering code	L.P.(₹)
1 NO	MCBL-10	1	1SFA611612R1010	868
1 NC	MCBL-01	1	1SFA611612R1001	

Extreme duty pushbutton

	Type	Pack size	Ordering code	L.P.(₹)
● ● ●	For Ø 30 mm mounting hole			
	KP6-40 ■	1	1SFA616105R400 □	2,326

Refer contact block configuration for standard operator

Reset pushbutton

	Type	Pack size	Ordering code	L.P.(₹)
● ○	With shaft			
No text	KPR3-100 ■	1	1SFA616162R100 □	736
● ○	Without shaft			
No text	KPR1-100 ■	1	1SFA616160R100 □	565
● ○	Accessories: Shaft (black)			
No text	KA1-8046	1	1SFA616920R8046	238

Accessories

	Type	Pack size	Ordering code	L.P.(₹)
Mounting tool	MA1-8015	1	1SFA611920R8015	526
Membrane of silicone flush button	KA1-8052	1	1SFA611920R8052	343
Membrane of silicone extended button	KA1-8002	1	1SFA611920R8002	619
Locking nut	MA1-8019	1	1SFA611920R8019	395

*Spacer is needed when legendplates are not used in plastic enclosures

Pilot devices

Enclosures



Empty enclosures



Shroud



DIN-rail adaptor

Empty plastic enclosures for modular and compact range				
Description	Type	Pack size	Ordering code	L.P.(₹)
■ □ 1-seat	MEPY1-0	1	1SFA611821R1000	2,928
■ □ 1-seat	MEP1-0	1	1SFA611811R1000	2,877
■ □ 2-seat	MEP2-0	1	1SFA611812R1000	2,653
■ □ 3-seat	MEP3-0	1	1SFA611813R1000	3,756
■ □ 4-seat	MEP4-0	1	1SFA611814R1000	5,082
■ □ 6-seat	MEP6-0	1	1SFA611816R1000	7,733
Shroud for modular range push button operator				
■ Yellow	MA1-8053	1	1SFA611920R8053	855
■ Grey	MA1-8128	1	1SFA611920R8128	2,469
Empty enclosures for compact range				
■ □ Yellow/Light grey	CEPY1-0	1	1SFA619821R1000	2,495
■ □ Dark grey/Light grey	CEP1-0	1	1SFA619811R1000	2,049
Shroud for compact range push buttons				
■ Yellow	CA1-8053	1	1SFA619920R8053	540
■ Grey	CA1-8054	1	1SFA619920R8054	540
DIN-Rail adaptor				
DIN-Rail adaptor	MA1-8131	1	1SFA611920R8131	1,484