



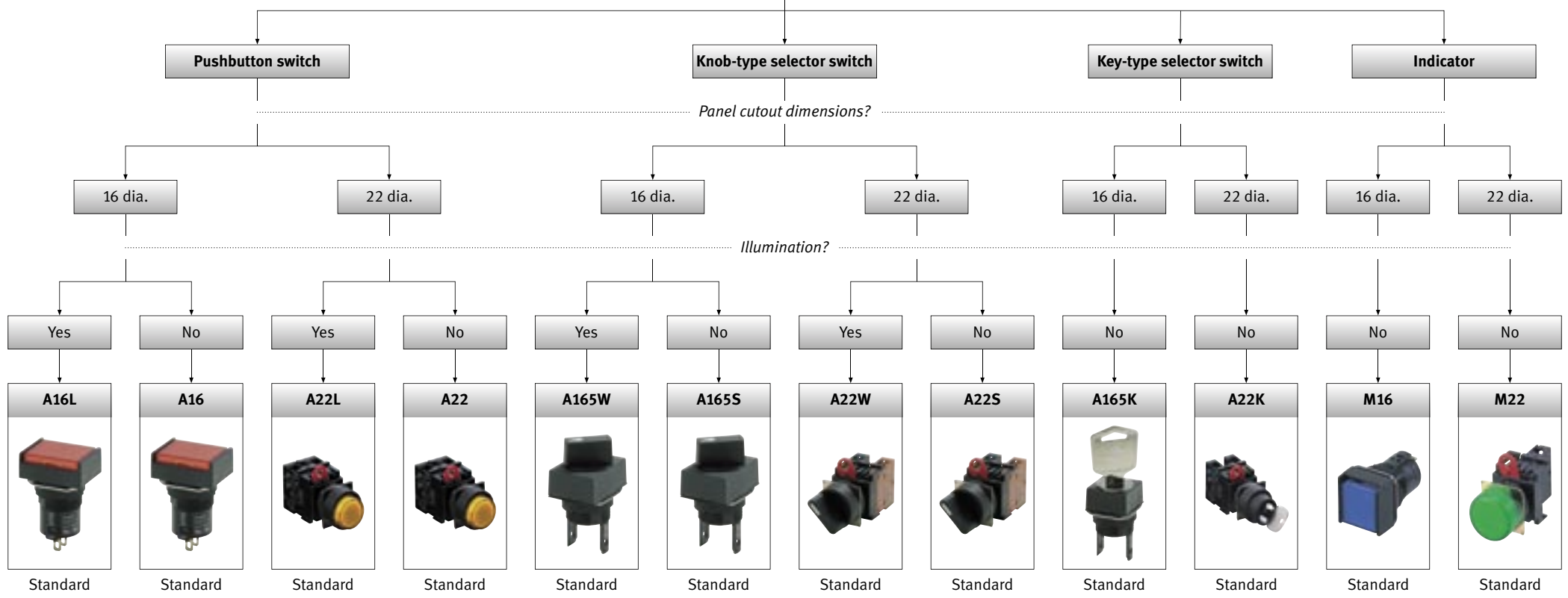
Pushbutton switches

Omron worked closely together with many leading machine manufacturers to produce this diverse range of high quality pushbutton switches that offer practical solutions for industrial applications.

- 2-piece construction
- Snaps together for quick assembly
- 16 to 22 mm housings
- IP40 and IP65, oil-tight
- Variety of shapes: rectangular, square, round
- Illuminated and non-illuminated types

Omron's pushbutton switches include models in 16 mm or 22 mm diameter. Available in a variety of shapes, sizes, colors and functions, the range allows you to select the right product for your application.

Which application is required?



Pushbutton switches

							Pushbutton color																	
Selection criteria							Incandescent lamp-lighted						LED-lighted					Non-lighted						
Type	Mounting	Size	Model		Key points	Shape	Red	Amber	Green	White	Blue	Orange	Red	Amber	Green	White	Blue	Red	Amber	Green	White	Blue	Black	
Pushbutton switch	Nut mounting	16mm	A16		Modular construction		•	•	•	•	•		•	•	•	•	•							•
		22mm	A22		Easy mounting & removing		•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
Key-type selector switch		16mm	A165K		Oil-resistant																			•
		22mm	A22K		3-row mounting of switch blocks																			•
Knob-type selector switch		16mm	A165S/W		Short mounting depth									•	•	•								
		22mm	A22S/W		Finger-protection mechanism		•	•	•		•			•	•	•		•						•
Indicator	16mm	M16		LED, incandescent and neon lamp		•	•	•	•	•			•	•	•	•	•							
	22mm	M22		Easy mounting & removing		•	•	•	•	•	•			•	•	•	•	•						

Features									Switch ratings [A]			Terminals		Operating voltage			Form								Approvals			
Momentary operation	Self-holding	No of contacts	IP rating	Buzzer	Legend plate	Reset method manual	Reset method automatic	125 VAC	250 VAC	30 VDC	Solder	Screw-less clamp	5 VDC	12 VDC	24 VDC	SPDT	DPDT	2 notches	3 notches	SPST-NO	SPST-NC	SPST-NO + SPST-NC	DPST-NO	DPST-NC	CE	SP	UL	
●	●	2	IP40/IP65		●	●		5	3	3	●														●	●	●	
		6	IP65		●			10	6	10			●	●	●					●	●	●	●	●	●	●	●	●
		2	IP65		●	●	●	5	3	3	●		●	●	●	●	●	●	●						●	●	●	
●	●	6	IP65		●	●		10	6	10								●	●	●	●	●	●	●	●	●	●	●
●	●	2	IP65		●			5	3	3	●		●	●	●	●	●	●	●						●	●	●	
●	●	6	IP65		●	●		10	6	10								●	●	●	●	●	●	●	●	●	●	●
			IP40/IP65		●						●	●	●	●	●										●	●	●	
			IP65		●								●	●	●										●	●	●	

Standard
 Available
 Not available



A16

A16 Pushbutton switches

Ordering code			
Pushbutton	A16	L-	
Degree of protection	IP40 (STANDARD)		
	IP65	5	
Flange shape	Rectangular	J	
	Round	T	
	Square	A	
Pushbutton color code	Red	R	
	Yellow	Y	
	Green	G	
	Blue	A	
	White	W	
	Black *1	B	
Operation	Momentary	M	
	Alternate	A	
Illumination/voltage	None (STANDARD)		
	LED	5 VDC	5D
		12 VDC	12D
		24 VDC	24D
		120 VAC	TV
	Incandescent lamp	5 VAC/VDC	5
		12 VAC/VDC	12
		24 VAC/VDC	24
Contacts		SPDT	1
		DPDT	2

*1 Models with B (Black) only available without illumination.

A16 Subassembled pushbutton switches

Pushbutton

Ordering code			
Pushbutton	A16	L-	
Degree of protection	IP40 (STANDARD)		
	IP65 oil-resistant	5	
Flange shape	Rectangular	J	
	Round	T	
	Square	A	
Illumination color	<i>Non-lighted models</i>	Red	R
		Green	G
		Yellow	Y
		White	W
		Blue	A
		Black	B
	<i>Lighted models</i>	LED/incandescent lamp	Red
			Yellow
			White
			Blue
		LED	Green
		Incandescent lamp	Green

Case

Ordering code			
Case	A16	-	
Degree of protection	IP40 (STANDARD)		
	IP65 oil-resistant	5	
Flange shape	Rectangular	CJ	
	Round	CT	
	Square	CA	
Switch action		Momentary	M
		Alternate	A

Lamp

Ordering code			
Lamp	A16 -		
Operating voltage (rated)	Incandescent lamp	5 (6) VAC/VDC	5
		12 (14) VAC/VDC	12
		24 (28) VAC/VDC	24
	LED	5 VDC	5DS
		12 VDC	12DS
		24 VDC	24DS
Illumination color	Incandescent lamp		
	Red (LED)		R
	Green (LED)		G
	Yellow (LED)		Y
	White (LED)		W
	Blue (LED)		A

Switch

Ordering code			
Switch (solder terminals)	A16 -		
Voltage reduction circuit	Without (STANDARD)		
	Operating/rated voltage	100 VAC/110 VAC	T1
Contacts		SPDT	1
		DPDT	2



A16



A22

A22 Subassembled pushbutton switches

Pushbutton			Ordering code	
Pushbutton	Non-lighted		A22 -	<input type="text"/>
	Lighted		A22 L -	<input type="text"/>
Flange shape	<i>Non-Lighted</i>	Round/flat		<input type="text"/>
		Round/projection		<input type="text"/>
		Round/full-guard		<input type="text"/>
		Round/half guard		<input type="text"/>
		Square/projection		<input type="text"/>
		Square/full-guard		<input type="text"/>
		Round/mushroom (30-dia, head)		<input type="text"/>
		Round/mushroom (40-dia, head)		<input type="text"/>
	<i>Lighted</i>	Round/projection		<input type="text"/>
		Round/full-guard		<input type="text"/>
		Round/half guard		<input type="text"/>
		Square/projection		<input type="text"/>
		Square/full-guard		<input type="text"/>
Illumination color	Red			<input type="text"/>
	Green			<input type="text"/>
	Yellow			<input type="text"/>
	White			<input type="text"/>
	Blue			<input type="text"/>
	Black (for non-lighted models only)			<input type="text"/>

Lamp			Ordering code	
Lamp			A22 -	<input type="text"/>
Operating voltage (rated voltage)	<i>Incandescent lamp</i>	5 VAC/DC (5V)		<input type="text"/>
		12 VAC/DC (12V)		<input type="text"/>
		24 VAC/DC (24V)		<input type="text"/>
		100 VAC/DC (100V)		<input type="text"/>
	<i>LED</i>	6 VDC (6 VDC)		<input type="text"/>
		6 VAC (6 VAC)		<input type="text"/>
		12 VAC/VDC (12 VAC/VDC)		<input type="text"/>
		24 VAC/VDC (24 VAC/VDC)		<input type="text"/>
Illumination color	Incandescent lamp (STANDARD)			<input type="text"/>
	Red			<input type="text"/>
	Green			<input type="text"/>
	Yellow			<input type="text"/>
	Blue			<input type="text"/>

Switch			Ordering code	
Switch			A22	<input type="text"/>
Lighted/non-lighted	Non-lighted (STANDARD)		-	<input type="text"/>
	Lighted		-	<input type="text"/>
Contacts	SPST-NO			<input type="text"/>
	SPST-NC			<input type="text"/>
	SPST-NO+SPST-NC			<input type="text"/>
	DPST-NO			<input type="text"/>
	DPST-NC			<input type="text"/>
Switch action	Momentary			<input type="text"/>
	Alternative			<input type="text"/>
Voltage reduction unit (lighted type only)	Without voltage reduction unit (STANDARD)			<input type="text"/>
	110 VAC (95-115 VAC)			<input type="text"/>
	220 VAC (190-230 AC)			<input type="text"/>



A165K

A165K Key-type selector switches - subassembled pushbutton switches

Selector		
Ordering code		
Selector	A165K -	<input type="text"/>
Flange shape	Rectangular	<input type="text" value="J"/>
	Round	<input type="text" value="T"/>
	Square	<input type="text" value="A"/>
Number of notches/reset method/key release position	2 notches/manual/left	<input type="text" value="2ML"/>
	2 notches/manual/right	<input type="text" value="2MR"/>
	2 notches/manual/right and left	<input type="text" value="2M"/>
	2 notches/automatic/left	<input type="text" value="2AL"/>
	3 notches/manual/centre	<input type="text" value="3MC"/>
	3 notches/manual/right	<input type="text" value="3MR"/>
	3 notches/manual/left	<input type="text" value="3ML"/>
	3 notches/manual/right, left and centre	<input type="text" value="3M"/>
	3 notches/automatic/centre	<input type="text" value="3AC"/>

Switch		
Ordering code		
Switch, solder terminals	A16S -	<input type="text"/>
Number of notches	2 notches	<input type="text" value="2N"/>
	3 notches	<input type="text" value="3N"/>
Contacts	SPDT	<input type="text" value="1"/>
	DPDT	<input type="text" value="2"/>



A22K

A22K Key-type selector switch subassembled pushbutton switches

Selector		
Ordering code		
Selector	A22K -	<input type="text"/>
Number of notches/reset method/key release position	2 notches/manual/left	<input type="text" value="2ML"/>
	2 notches/manual/left and right	<input type="text" value="2M"/>
	2 notches/automatic/left	<input type="text" value="2AL"/>
	3 notches/manual/left	<input type="text" value="3ML"/>
	3 notches/manual/left and right	<input type="text" value="3M"/>
	3 notches/manual/centre	<input type="text" value="3MC"/>
3 notches/automatic/centre	<input type="text" value="3AC"/>	

Switch		
Ordering code		
Switch	A22 -	<input type="text"/> M
Contacts	SPST-NO (2 notch models only)	<input type="text" value="10"/>
	SPST-NC (2 notch models only)	<input type="text" value="01"/>
	SPST-NO+SPST-NC	<input type="text" value="11"/>
	DPST-NO	<input type="text" value="20"/>
	DPST-NC	<input type="text" value="02"/>



A165S/W

A165S/W Knob-type selector switches - subassembled pushbutton switches

Selector			
Ordering code			
Selector, IP65	A165	-	
Lighted/non-lighted	Non-lighted	S	
	Lighted	W	
Flange shape	Rectangular	J	
	Round	T	
	Square	A	
Number of notches	2 notches/manual	2M	
	2 notches/automatic	2A	
	3 notches/manual	3M	
	3 notches/mixed-operation	3A	
	3 notches/CCW-manual/CW-automatic	3MA	
	3 notches/CCW-automatic/CW-manual	3AM	
Illumination color	Red	R	
	Yellow	Y	
	Green	G	
	Black *1	B	
*1 Models with B (Black) only available without illumination.			

Switch			
Ordering code			
Switch, solder terminals, IP65	A16S-	-	N-
Number of notches	2		
	3		
Contacts	SPDT	1	
	DPDT	2	
Lighted/non-lighted	Non-lighted		
	Lighted		L

Lamp			
Ordering code			
Lamp	A16S-		
Operating voltage (rated voltage)	5 VDC	5DS	
	12 VDC	12DS	
	24 VDC	24DS	
Illumination color	Red (LED)	R	
	Green (LED)	G	
	Yellow (LED)	Y	



A22S/W

A22S/W Subassembled knob-type selector switches - pushbutton switches

Pushbutton		Ordering code	
Pushbutton	Non-lighted	A22S -	<input type="text"/>
	Lighted	A22W -	<input type="text"/>
Number of notches/reset method	2 notches/manual	<input type="text"/>	<input type="text"/>
	2 notches/automatic	<input type="text"/>	<input type="text"/>
	3 notches/manual	<input type="text"/>	<input type="text"/>
	3 notches/automatic	<input type="text"/>	<input type="text"/>
	Illumination color	Black (for non-lighted models only) (STANDARD)	<input type="text"/>
	Red	<input type="text"/>	<input type="text"/>
	Green	<input type="text"/>	<input type="text"/>
	Yellow	<input type="text"/>	<input type="text"/>
	Blue	<input type="text"/>	<input type="text"/>

Lamp		Ordering code		
Lamp		A22 -	<input type="text"/>	
Operating voltage (rated voltage)	<i>Incandescent lamp</i>	5 VAC/DC (5V)	<input type="text"/>	
		12 VAC/DC (12V)	<input type="text"/>	
		24 VAC/DC (24V)	<input type="text"/>	
	<i>LED</i>	100 VAC/DC (100V)	<input type="text"/>	
		6 VDC (6 VDC)	<input type="text"/>	
		6 VAC (6 VAC)	<input type="text"/>	
		12 VAC/VDC (12 VAC/VDC)	<input type="text"/>	
		24 VAC/VDC (24 VAC/VDC)	<input type="text"/>	
		Illumination color	Incandescent lamp (STANDARD)	<input type="text"/>
			Red	<input type="text"/>
	Green	<input type="text"/>		
	Yellow	<input type="text"/>		
	Blue	<input type="text"/>		

Switch		Ordering code	
Switch		A22 -	<input type="text"/>
Lighted/non-lighted	Non-lighted (STANDARD)	<input type="text"/>	<input type="text"/>
	Lighted	<input type="text"/>	<input type="text"/>
Contacts	SPST-NO (2 notch models only)	<input type="text"/>	<input type="text"/>
	SPST-NC (2 notch models only)	<input type="text"/>	<input type="text"/>
	SPST-NO+SPST-NC	<input type="text"/>	<input type="text"/>
	DPST-NO	<input type="text"/>	<input type="text"/>
	DPST-NC	<input type="text"/>	<input type="text"/>
Voltage reduction unit (lighted type only)	Without voltage reduction unit (STANDARD)	<input type="text"/>	<input type="text"/>
	110 VAC (95-115 VAC)	<input type="text"/>	<input type="text"/>
	220 VAC (190-230 VAC)	<input type="text"/>	<input type="text"/>



M16

M16 Indicators - subassembled pushbutton switches

Display

Ordering code

Display	For LED-lighted models	A16	[]	L-	[]	[]	[]
	Incandescent lamps	A16	[]	L-	[]	[]	[]

↑ ↑ ↑ ↑

Degree of protection	IP40 (STANDARD)	[]
	IP65 oil-resistant	5

↑

Flange shape	Rectangular	J
	Square	A
	Round	T

↑ ↑

Illumination color	Red	R	R
	Yellow	Y	Y
	Pure Yellow	PY	PY
	Green	G	GY
	White	W	W
	Blue	A	A

Case

Ordering code

Case	A16	[]	- C	[]	M
------	-----	-----	-----	-----	---

↑ ↑

Degree of protection	IP40 (STANDARD)	[]
	IP65 oil-resistant	5

↑

Flange shape	Rectangular	J
	Square	A
	Round	T

↑

Socket

Ordering code

Socket	M16 -	[]
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↑

Terminals	Solder terminals	0
	Solder terminals, voltage reduction lighting, 100V	T1
	Screw-less clamp, voltage reduction lighting, 200V	T2-S

Lamp

Ordering code

Lamp	LED	A16 -	[]	[]
	Incandescent lamps	A16 -	[]	[]

↑ ↑ ↑

Operating voltage	5 VDC	5D
	12 VDC	12D
	24 VDC	24D
	5 VAC/VDC	5
	12 VAC/VDC	12
	24 VAC/VDC	24

↑ ↑

Illumination color	Red	SR
	Yellow	SY
	Green	SG
	White	SW
	Blue	A



M22

M22 Indicators - subassembled pushbutton switches

Display

Ordering code		
Display	M22	<input type="text"/>
Flange shape	Round/flat	<input type="text" value="F"/>
	Square/projection	<input type="text" value="C"/>
Cap color	Red	<input type="text" value="R"/>
	Green	<input type="text" value="G"/>
	Yellow	<input type="text" value="Y"/>
	White	<input type="text" value="W"/>
	Blue	<input type="text" value="A"/>

Socket

Ordering code		
Socket	M22 - 00 -	<input type="text"/>
Voltage reduction unit	Without voltage reduction unit (STANDARD)	<input type="text"/>
	110 VAC	<input type="text" value="T1"/>
	220 VAC	<input type="text" value="T2"/>

Lamp

Ordering code			
Lamp	LED	A22 - <input type="text"/>	
Operating voltage (rated voltage)	Incandescent lamp	5 VAC/DC (5V)	<input type="text" value="5"/>
		12 VAC/DC (12V)	<input type="text" value="12"/>
		24 VAC/DC (24V)	<input type="text" value="24"/>
	LED	100 VAC/DC (100V)	<input type="text" value="H1"/>
		6 VDC (6 VDC)	<input type="text" value="6D"/>
		6 VAC (6 VAC)	<input type="text" value="6A"/>
		12 VAC/VDC (12 VAC/VDC)	<input type="text" value="12A"/>
		24 VAC/VDC (24 VAC/VDC)	<input type="text" value="24A"/>
		Incandescent lamp	<input type="text"/>
		Red	<input type="text" value="R"/>
Green	<input type="text" value="G"/>		
Yellow	<input type="text" value="Y"/>		
Blue	<input type="text" value="A"/>		