

## Industrial Control Panel

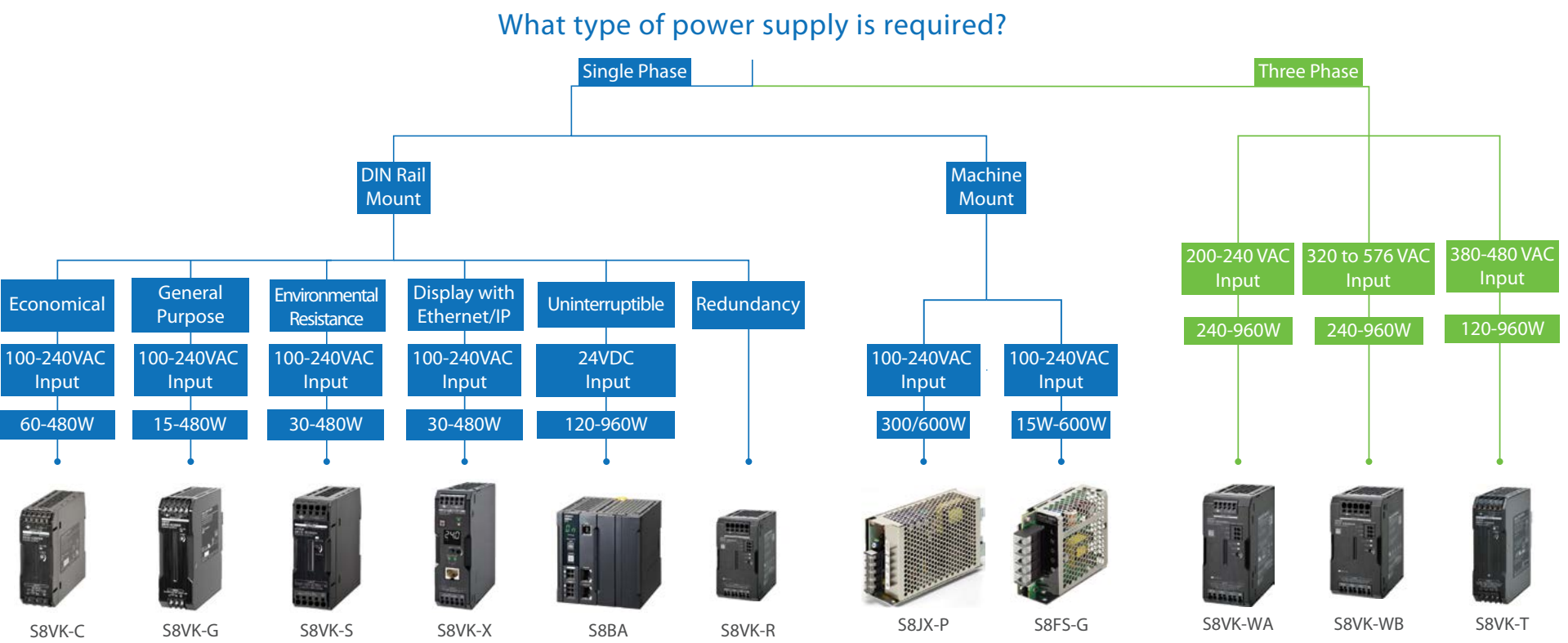
### Component selection guide



# Table of Contents

<b>Power Supplies</b>	Find a power supply that fits your requirements for cost effectiveness, space savings and other parameters within Omron's portfolio of din rail power supplies.	3
<b>Mechanical Relays</b>	Omron's dependable relays set the ultimate standard for reliability, easy of testing and compatibility with momentary voltage drops. Browse our diverse portfolio to find an electromechanical relay that suits your exact needs.	5
<b>Low Voltage Switch Gear</b>	In addition to inverters and servos, Omron Offers On/Off low voltage switch gear for a complete motor solution.	7
<b>Predictive Maintenance</b>	Omron's predictive maintenance offering allows for remote condition monitoring of various equipment types to determine health and status of critical infrastructure	9
<b>Solid State Relays</b>	Omron's diverse solid-state relay offering features cost-effective, slim-size models and a wide variety of compatibility options.	11
<b>Monitoring Products</b>	Omron's wide-ranging portfolio of monitoring products include three-phase voltage relays, conductive level controllers, liquid leakage sensor amplifiers and more.	13
<b>Timers</b>	Find a digital or analog timer that meets your specific application requirements among the many options in our product portfolio. Omron offers timers for 24 hour, weekly, and annual time control.	15
<b>Counters</b>	Featuring added-value functionality and clear visibility in all environments, Omron's counters are ideal for enhancing throughput and flexibility.	17
<b>Temperature Controllers</b>	Keep your operations at the precise temperature necessary to ensure quality and maximize production with Omron's temperature controllers.	19
<b>Digital Panel Meter</b>	Our digital panel meters enhance production by providing high-speed, high-precision results for important measurements.	21
<b>Limit Switches and Basic Switches</b>	Browse our comprehensive portfolio to find the ideal switch for safety and non-safety applications that meet your needs for easy installation, long operational life and oil resistance.	23
<b>Pushbuttons and Emergency Stop Switches</b>	Lighted and non-lighted pushbuttons are available in a wide variety of formats to provide an intuitive way to control the activities of your equipment.	27
<b>Indicators</b>	Browse Omron's wide selection of customizable indicators.	30

# Power Supplies | Manufacturing power supplies for over 30 years










## Recommended use with power supplies

Associated Product Categories	Use Case	Product Families
Power Supply Accessories	Accessories for redundancy, protection and filtering	S8V-CP, S8VK-R, S8BA, S8V-NF
Mechanical Relays	Mechanical relays used to control on/off switching of devices	G2RV, G2RS, MY, LY
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control	J7KC, J7KCR, J7MC, J7TC, J7KCA
Timers/Counters	Counting or Timing based on an input signal	H5CX, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Pushbuttons&E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NN, A30NN, A22NE, A2W

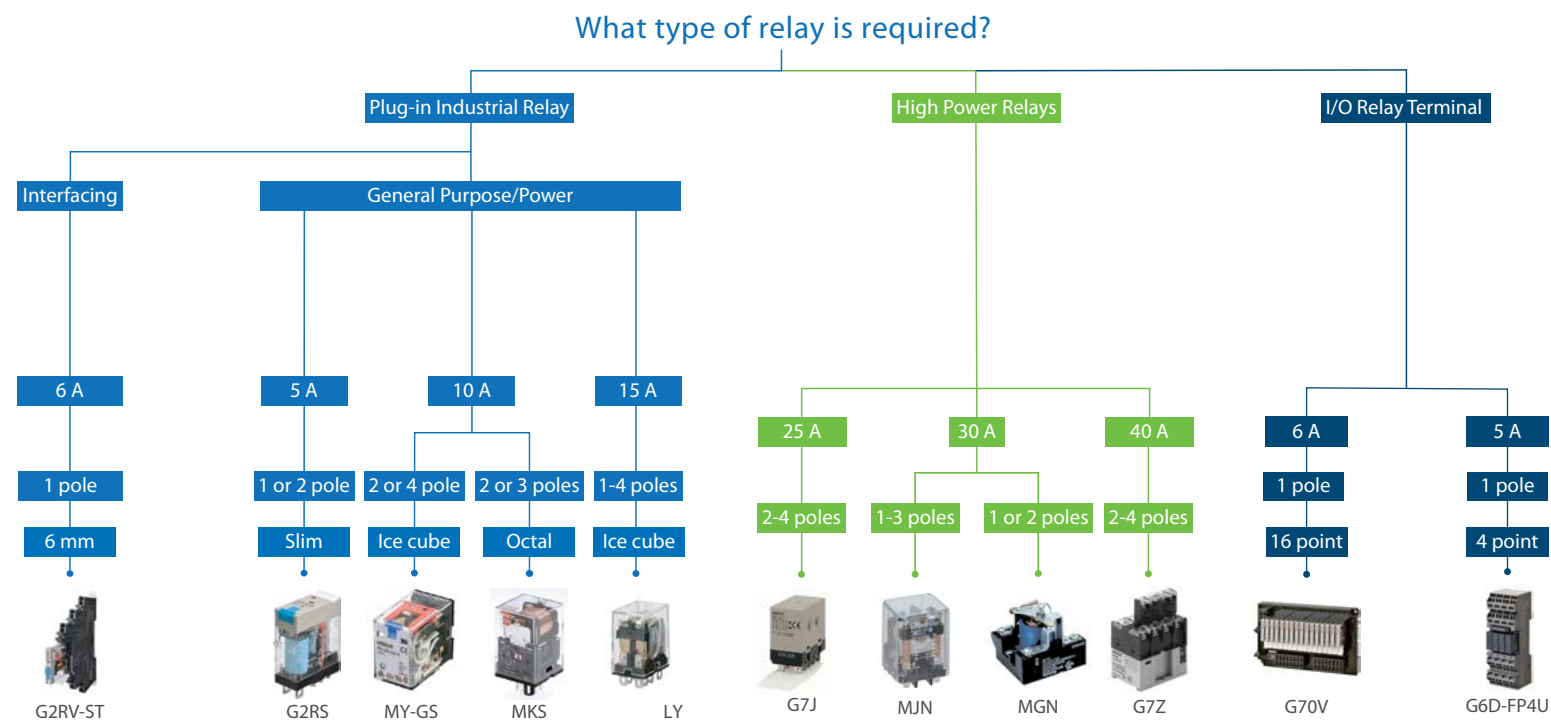


# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">S8VK-G</a>		S8VK-G06024	60W, 24VDC output, 2.5A, 100-240VAC input	Single-Phase: Standard Power Supply. Includes power boost function to protect against in-rush current. Screw terminals. Rated for -40° to 70°C
		S8VK-G12024	120W, 24VDC output, 5A, 100-240VAC input	
		S8VK-G24024	240W, 24VDC output, 10A, 100-240VAC input	
<a href="#">S8VK-S</a>		S8VK-S06024	60W, 24VDC output, 2.5A, 100-240VAC input, Push-in terminals	Single-Phase: Environmental Resistance Power Supply. Added PCB coating for protection against moisture. Higher altitude rating and push-in terminals. Rated for -40° to 70°C
		S8VK-S12024	120W, 24VDC output, 5A, 100-240VAC input, Push-in terminals	
		S8VK-S24024	240W, 24VDC output, 10A, Push-in terminals	
<a href="#">S8VK-X</a>		S8VK-X06024-EIP	60W, 24VDC output, 2.5A, 100-240VAC input, EIP	Single-Phase : Predictive Maintenance Power Supply. Equipped with Ethernet/IP and optional display for real-time monitoring of power supply life, voltage, peak current and run-time. Free software tool included.
		S8VK-X09024-EIP	90W, 24VDC output, 3.75A, 100-240VAC input, EIP	
		S8VK-X09024A-EIP	90W, 24VDC output, 3.75A, 100-240VAC input, EIP with display	
		S8VK-X12024-EIP	120W, 24VDC output, 5A, 100-240VAC input, EIP	
		S8VK-X12024A-EIP	120W, 24VDC output, 5A, 100-240VAC input, EIP with display	
		S8VK-X24024-EIP	240W, 24VDC output, 10A, 100-240VAC input, EIP	
		S8VK-X24024A-EIP	240W, 24VDC output, 10A, 100-240VAC input, EIP with display	
<a href="#">S8VK-C</a>		S8VK-C06024	60W, 24VDC output, 2.5A, 100-240VAC input	Single-Phase : Economical Power Supply. No power boost function to protect against in-rush current damage. Screw terminals. Rated for -25° to 60°C
		S8VK-C12024	120W, 24VDC output, 5A, 100-240VAC input	
		S8VK-C24024	240W, 24VDC output, 10A, 100-240VAC input	
<a href="#">S8VK-T</a>		S8VK-T12024	120W, 24VDC output, 5A, 380-480VAC input, 3-phase	Three-Phase: Standard Power Supply. Includes power boost function to protect against in-rush current. Screw terminals. Rated for -40° to 70°C
		S8VK-T24024	240W, 24VDC output, 5A, 380-480VAC input, 3-phase	
<a href="#">S8VK-WB</a>		S8VK-WB24024	240W, 24V output, 10A, 320 to 576 VAC, 3-phase	Three-Phase: Standard Power Supply. Includes power boost function to protect against in-rush current. Designed for Push-In Plus termination and comes with a coated PCB for better resistance to harsh environments. Rated for -40° to 70°C
		S8VK-WB48024	480W, 24V output, 20A, 320 to 576 VAC, 3-phase	
		S8VK-WB96048	960W, 48V output, 40A, 320 to 576 VAC, 3-phase	
<a href="#">S8FS-G</a>		S8FS-G10024CD	100W, 24VDC output, 4.5A, 100-240VAC input, w/DIN-rail mount option	Single-Phase: Machine or DIN rail mount power supply. Ideal for machine tool and semiconductor manufacturing equipment. Rated for -20° to 70°C.
		S8FS-G15024CD	150W, 24VDC output, 6.5A, 100-240VAC input, w/DIN-rail mount option	
		S8FS-G30024CD	300W, 24VDC output, 14A, 100-240VAC input, w/DIN-rail mount option	

Mechanical Relays

| Omron is the world’s largest relay manufacturer and has been manufacturing relays for over 50 years



Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Timers/Counters	Counting or Timing based on an input signal	H5CX, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Pushbuttons & E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NN, A30NN, A22NE, A2W

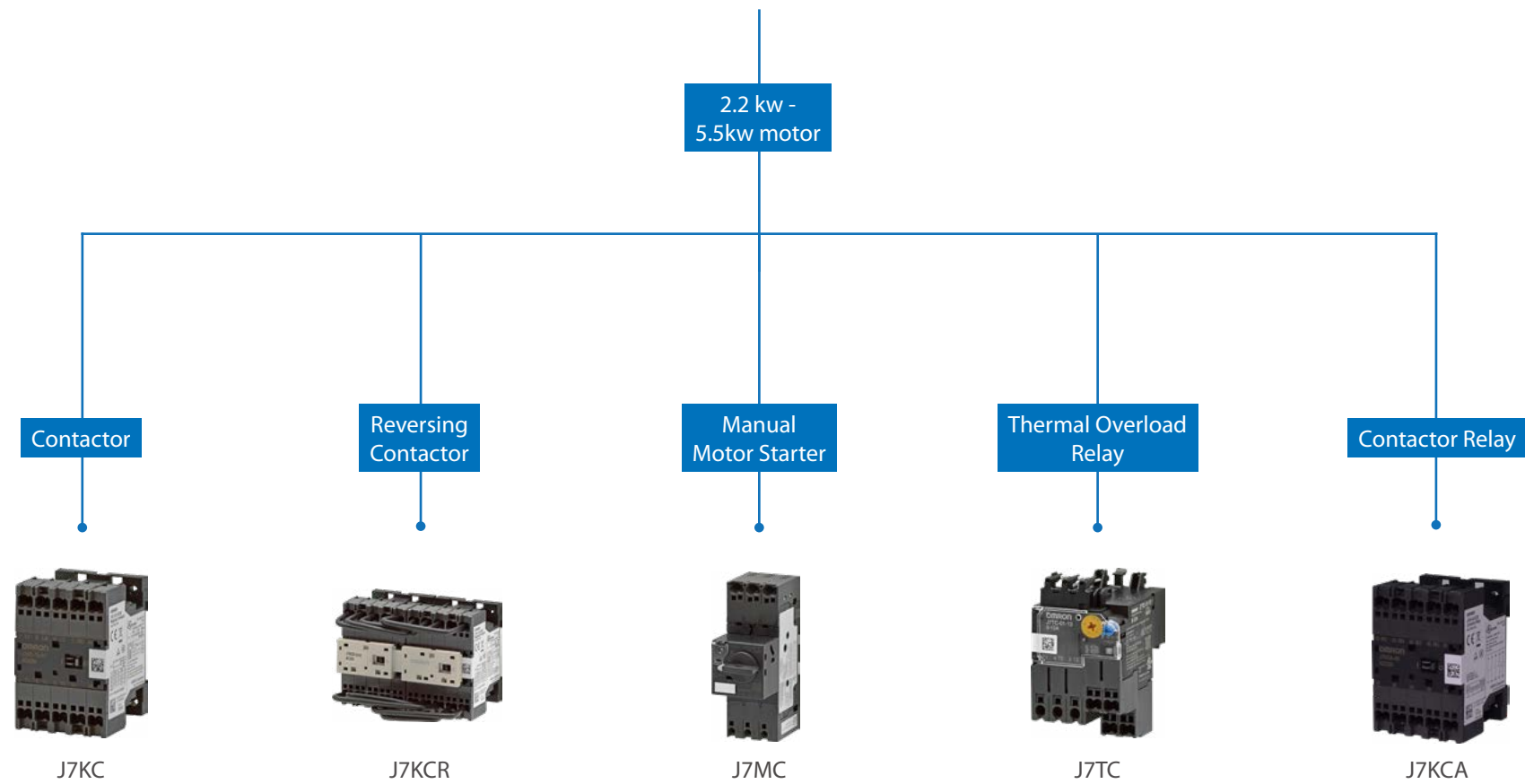
# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">G2RV-ST</a>		G2RV-ST500 DC24	Slim I/O Relay & Socket, SPDT, 24VDC, 6A, Push-in terminals	Slim mechanical relay equipped with screw or push-in terminals. Ideal for I/O relay applications.
		G2RV-ST500 AC/DC24	Slim I/O Relay & Socket, SPDT, 24VAC/VDC, 6A, Push-in terminals	
		G2RV-ST500 AC110	Slim I/O Relay & Socket, SPDT, 110VAC, 6A, Push-in terminals	
		G2RV-ST500 AC230	Slim I/O Relay & Socket, SPDT, 230VAC, 6A, Push-in terminals	
<a href="#">G2RS</a>		G2R-1-S DC24 (S)	SPDT, 24VDC (use P2RFZ-05-E or P2RF-05-PU socket)	 G2RS Screw Terminal Socket (P2RFZ)
		G2R-1-SN DC24 (S)	SPDT, LED indicator, 24VDC (use P2RFZ-05-E or P2RF-05-PU socket)	
		G2R-1-S AC120 (S)	SPDT, 120VAC (use P2RFZ-05-E or P2RF-05-PU socket)	
		G2R-1-SN AC120 (S)	SPDT, LED indicator, 120VAC (use P2RFZ-05-E or P2RF-05-PU socket)	
		G2R-2-S DC24 (S)	DPST, 24VDC (use P2RFZ-08-E or P2RF-08-PU socket)	
		G2R-2-SN DC24 (S)	DPDT, LED indicator, 24VDC (use P2RFZ-08-E or P2RF-08-PU socket)	
		G2R-2-S AC120 (S)	DPST, 120VAC (use P2RFZ-08-E or P2RF-08-PU socket)	 G2RS Push-in Plus Socket (P2RF)
		G2R-2-SN AC120 (S)	DPDT, LED indicator, 120VAC (use P2RFZ-08-E or P2RF-08-PU socket)	
		P2RFZ-05-E	Screw terminal socket for G2R-1-S(S) relay	
		P2RFZ-08-E	Screw terminal socket for G2R-2-S(S) relay	
		P2RF-05-PU	Push-in Plus socket for G2R-1-S(S) relay	
		P2RF-08-PU	Push-in Plus socket for G2R-2-S(S) relay	
<a href="#">MY</a>		MY2N-GS DC24 (S)	4PDT, 24VDC w/operation indicator (use PYFZ-08-E or PYF-08-PU socket)	 MY Screw Terminal Socket (PYFZ)
		MY2N-GS AC110/120 (S)	4PDT, 110/120VAC w/operation indicator (use PYFZ-08-E or PYF-08-PU socket)	
		MY4N-GS DC24 (S)	4PDT, 24VDC w/operation indicator (use PYFZ-14-E or PYF-14-PU socket)	
		MY4N-GS AC110/120 (S)	4PDT, 110/120VAC w/operation indicator (use PYFZ-14-E or PYF-14-PU socket)	
		PYFZ-08-E	Screw terminal socket for MY2 relay	 MY Push-in Plus Socket (PYF-PU)
		PYFZ-14-E	Screw terminal socket for MY4 relay	
		PYF-08-PU	Push-in Plus socket for MY2 relay w/release lever	
		PYF-14-PU	Push-in Plus socket for MY4 relay w/release lever	
<a href="#">LY</a>		LY2N DC24	4PDT, 24VDC w/operation indicator (use PTF08A-E or PTF-08-PU socket)	 LY Screw Terminal Socket (PTF-AE)
		LY2N AC110/120	4PDT, 110/120VAC w/operation indicator (use PTF08A-E or PTF-08-PU socket)	
		LY4N DC24	4PDT, 24VDC w/operation indicator (use PTF014A-E or PTF-14-PU-L socket)	
		LY4N AC110/120	4PDT, 110/120VAC w/operation indicator (use PTF014A-E or PTF-14-PU-L socket)	
		PTF08A-E	Screw terminal socket for LY2 relay	 LY Push-in Plus Terminal Socket (PTF-PU)
		PTF14A-E	Screw terminal socket for LY4 relay	
		PTF-08-PU	Push-in Plus socket for LY2 relay w/release lever	
		PTF-14-PU-L	Push-in Plus socket for LY4 relay w/o release lever	



# Low voltage switchgear

What type of motor control is required?



Associated Product Catagories	Use Case	Product Familes
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Predictive Maintenance	Used to monitor equipment condition and predict failure	K6CM, K6PM, K7GE, K7TM
Monitoring Products	Detects voltage, current, temperature, fluid level or phase errors to protect equipment	K8DT, K8AK, K8DS
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC

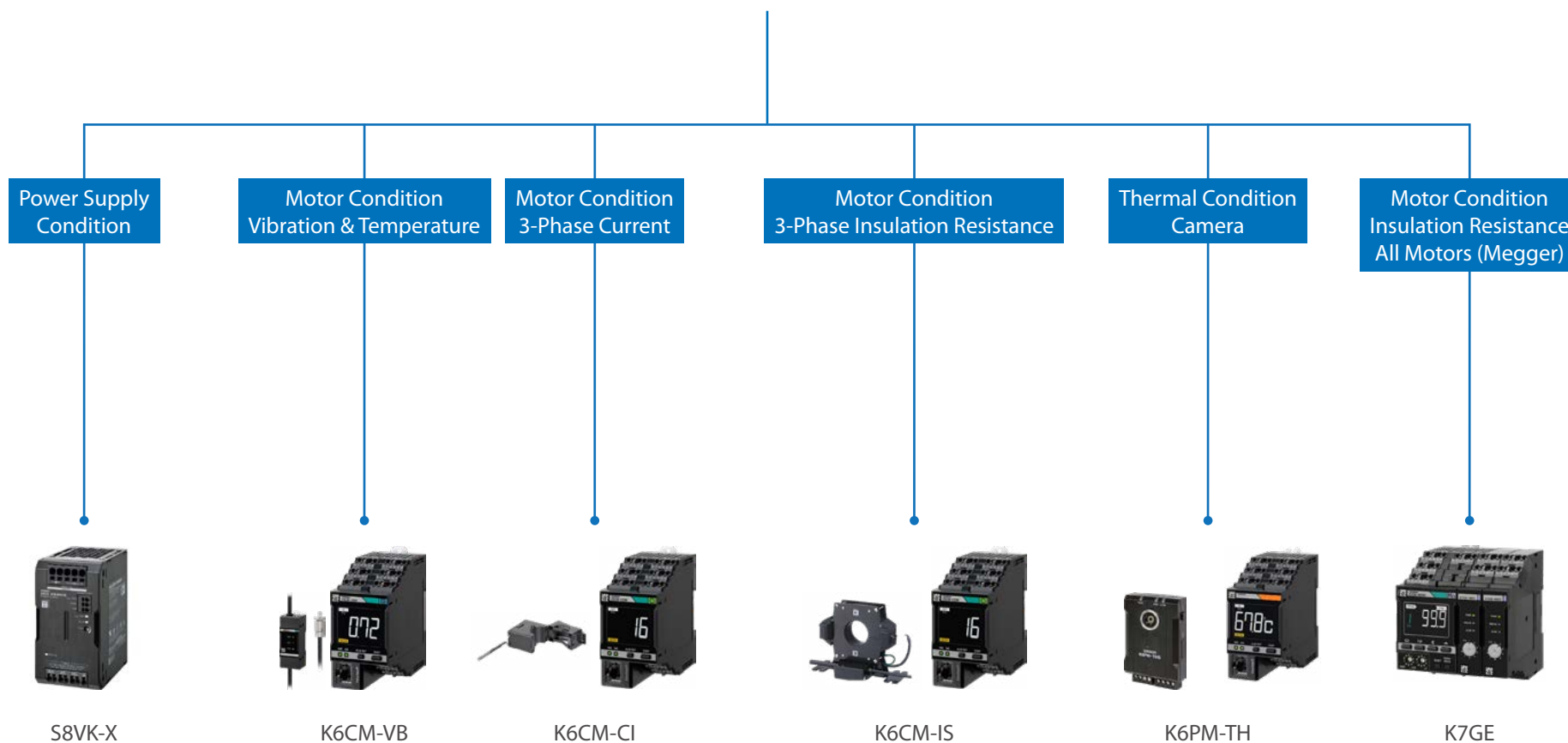
# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">J7KC</a>		J7KC-12-10 AC24	Magnetic Contactor, 24 VAC input, SPST-1NO auxiliary contact	Motor contactor designed for ON/OFF control of 3-7 hp. motors. Ideal for conveyors, compressors, pumps, fans and gantry systems.
		J7KC-12-01 AC24	Magnetic Contactor, 24 VAC input, SPST-1NC auxiliary contact	
		J7KC-12-10 AC120	Magnetic Contactor, 120 VAC input, SPST-1NO auxiliary contact	
		J7KC-12-01 AC120	Magnetic Contactor, 120 VAC input, SPST-1NC auxiliary contact	
		J7KC-12-10 AC230	Magnetic Contactor, 230 VAC input, SPST-1NO auxiliary contact	
		J7KC-12-01 AC230	Magnetic Contactor, 230 VAC input, SPST-1NC auxiliary contact	
<a href="#">J7KCR</a>		J7KCR-12-10 AC24	Reversing Magnetic Contactor, 24 VAC input, SPST-1NO, auxiliary contact	Motor contactor designed for forward/reverse control of 3-7 hp. Motors. Ideal for window motor applications.
		J7KCR-12-10 AC120	Reversing, Magnetic Contactor, 120 VAC input, SPST-1NO, auxiliary contact	
<a href="#">J7MC</a>		J7MC-3P-2E5	Manual Motor Starter, rocker switch 200-690 VAC, 2.5A rated current	Manual Motor Starter protects motor from overloads, phase failures and short circuits. Recommended use with J7KC motor contactor.
		J7MC-3P-4	Manual Motor Starter, rocker switch, 200-690 VAC, 4A rated current	
		J7MC-3P-10	Manual Motor Starter, rocker switch, 200-690 VAC, 10A rated current	
<a href="#">J7TC</a>		J7TC-01-2E6	Thermal Overload Relay, 24-600 VAC, 1.7-2.6 A current range setting	Thermal Overload Relay protects motor from overloads and phase-loss by cutting off power if exceeding trip current. Recommended to use with J7KC motor contactor.
<a href="#">J7KCA</a>		J7KCA-22 DC24	Contactor Relay, 24 VDC input, 4PST-2NO 2NC contacts	J7KCA Contactor Relay uses mechanically linked contacts to control 3-phase motors and heaters.
		J7KCA-31 DC24	Contactor Relay, 24 VDC input, 4PST-3NO 1 NC contact	
		J7KCA-40 DC24	Contactor Relay, 24 VDC, 4PST-4NO	



# Predictive Maintenance

## Omron Predictive Maintenance Solutions



Associated Product Catagories	Use Case	Product Familes
Power Supplies	Powering the devices connected to your control panel.	S8VK-G, S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices	G2RV, G2RS, MY, LY
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control.	J7KC, J7KCR, J7MC, J7TC, J7KCA
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Indicators	Can be used to visually indicate status	M16, M165, M22N, M3U, M2S

# Suggested Part Numbers

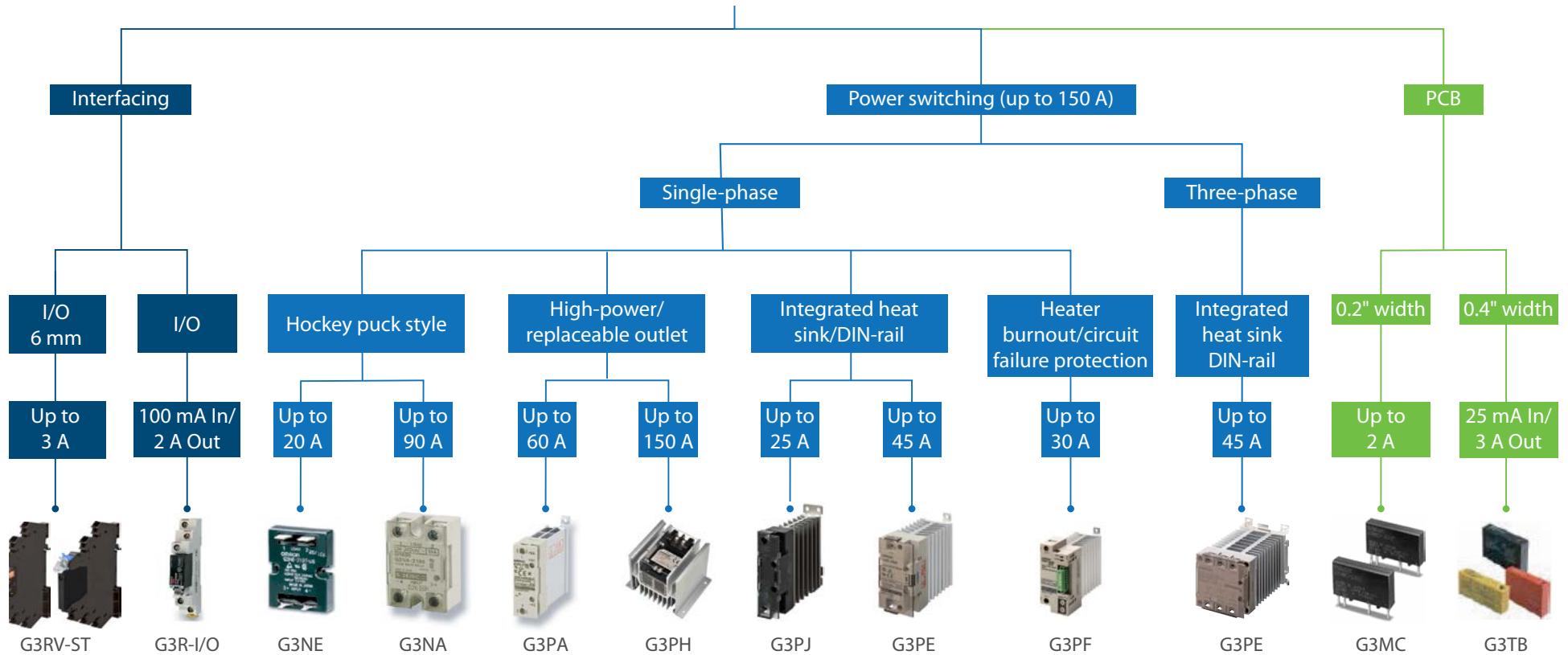
Model		Part Number	Description
<a href="#">K6CM Motor Condition Monitor</a>		K6CM-VBMD-EIP	Controller- Vibration/Temp monitor, 24VAC/DC input (Use K6CM-VBS1 sensor with controller)
		K6CM-VBS1	Vibration/Temperature Sensor for K6CM-VBM
		K6CM-CI2MD-EIP	Controller- Current Monitor, 24VAC/DC input (Select a CT clamp to use with controller)
		K6CM-CICB025	CT clamp 25A
		K6CM-CICB100	CT clamp 100A
		K6CM-CICB200	CT clamp 200A
		K6CM-CICB400	CT clamp 400A
		K6CM-CICB600	CT clamp 600A
		K6CM-ISMD-EIP	Controller- Insulation Monitor, 24VAC/DC input (Use K6CM-ISZBI52 with controller)
		K6CM-ISZBI52	ZCT-clamp for insulation monitoring
<a href="#">K6PM Thermal Condition Monitor</a>		K6PM-THMD-EIP	Controller, 24VDC input
		K6PM-THS3232	Thermal imaging sensor
<a href="#">K7GE Insulation Resistance Monitor</a>		K7GE-MGMA	Controller- Insulation Resistance Monitor: 100-240V A input (use K7GE-MGMA with probe)
		K7GE-MGMD	Controller- Insulation Resistance Monitor: 240VAC/VDC input (use K7GE-MGMD with probe)
		K7GE-MG1	K7GE Motor Probe
<a href="#">S8VK-X<sup>1</sup></a>		S8VK-X06024-EIP	60W, 24VDC output, 2.5A, 100-240VAC input, EIP
		S8VK-X09024-EIP	90W, 24VDC output, 3.75A, 100-240VAC input, EIP
		S8VK-X09024A-EIP	90W, 24VDC output, 3.75A, 100-240VAC input, EIP with display
		S8VK-X12024-EIP	120W, 24VDC output, 5A, 100-240VAC input, EIP
		S8VK-X12024A-EIP	120W, 24VDC output, 5A, 100-240VAC input, EIP with display
		S8VK-X24024-EIP	240W, 24VDC output, 10A, 100-240VAC input, EIP
		S8VK-X24024A-EIP	240W, 24VDC output, 10A, 100-240VAC input, EIP with display

1. Single-Phase : Predictive Maintenance Power Supply. Equipped with Ethernet/IP and optional display for real-time monitoring of power supply life, voltage, peak current and run-time. Free software tool included.

# Solid State Relays






| Omron is the world's largest relay manufacturer and has been manufacturing relays for over 50 years

## What type of relay is required?



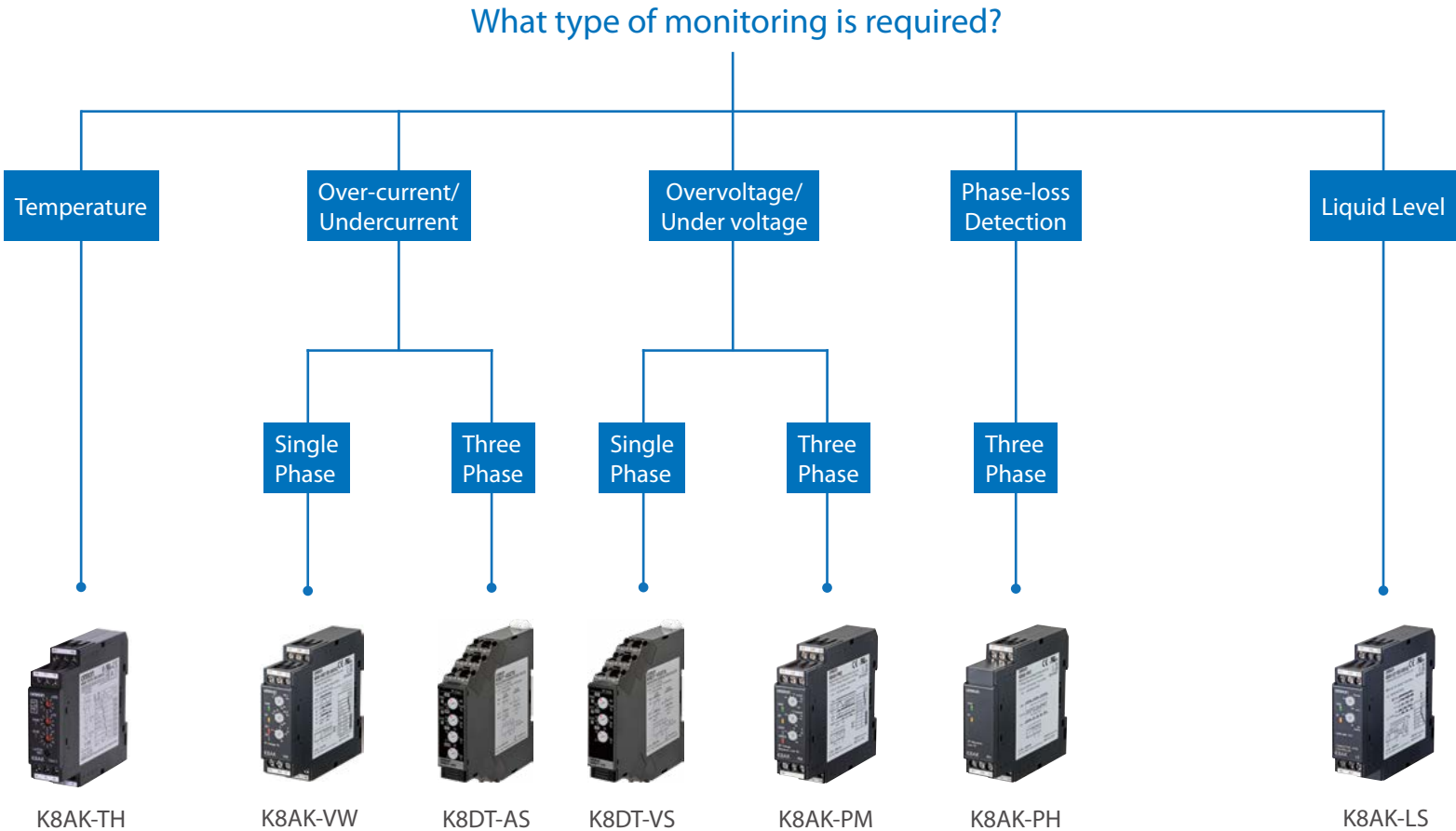
Associated Product Catagories	Use Case	Product Familes
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Timers/Counters	Counting or Timing based on an input signal.	H5CX, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Pushbuttons&E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NN, A30NN, A22NE, A2W

# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">G3RV-ST</a>		G3RV-ST500-D DC24	Slim I/O SSR & Socket, 24VDC input, 3A, Push-in terminals	Slim 6mm solid-state relay equipped with screw or push-in terminals Available in zero-cross, non zero cross, and MOSFET DC outputs. Ideal for I/O applications.
		G3RV-ST700-D DC24	Slim I/O SSR & Socket, 24VDC input, 3A, Screw terminals	
		G3RV-ST700-A DC24	Slim I/O SSR & Socket, 24VAC input, 2A, Screw terminals	
		G3RV-ST700-D AC/DC24	Slim I/O SSR & Socket, 24VAC/VDC input, 3A, Screw terminals	
<a href="#">G3PJ</a>		G3PJ-215B-PU DC12-24	15A, 1-phase SSR, 240VAC out, 24VDC in	DIN-rail mounting solid state relay with integrated heat sink for low heat generation. Equipped with zero cross function and optional push-in terminals. Ideal for heater applications.
		G3PJ-225B-PU DC12-24	25A, 1-phase SSR, 240VAC out, 24VDC in	
		G3PJ-515B-PU DC12-24	15A, 1-phase SSR, 480VAC out, 24VDC in	
		G3PJ-525B-PU DC12-24	25A, 1-phase SSR, 480VAC out, 24VDC in	
<a href="#">G3NA</a>		G3NA-210B-UTU DC5-24	10A, 240VAC out, 24VDC in, with indicator	Hockey puck style solid state relay. AC outputs models equipped with zero cross function. Optional heat sinks and mounting brackets available.
		G3NA-220B-UTU DC5-24	20A, 240VAC out, 24VDC in, with indicator	
		G3NA-225B-UTU DC5-24	25A, 240VAC out, 24VDC in, with indicator	
		G3NA-240B-UTU DC5-24	40A, 240VAC out, 24VDC in, with indicator	
		G3NA-250B-UTU DC5-24	50A, 240VAC out, 24VDC in, with indicator	
		G3NA-420B-UTU DC5-24	20A, 400VAC out, 24VDC in, with indicator	
		G3NA-490B-UTU-2 DC5-24	90A, 400VAC out, 24VDC in, with indicator	
		G3NA-210B-UTU AC100-240	10A, 240VAC out, 100-240VAC in, with indicator	
		G3NA-220B-UTU AC100-240	20A, 240VAC out, 100-240VAC in, with indicator	
		G3NA-225B-UTU AC100-240	25A, 240VAC out, 100-240VAC in, with indicator	
		G3NA-240B-UTU AC100-240	40A, 240VAC out, 100-240VAC in, with indicator	
		G3NA-440B-UTU-2 AC100-240	40A, 400VAC out, 100-240VAC in, with indicator	
		Y92B-A150N	Surface mount heat sink-for G3NA 225, 240, 425, 440 models	
		Y92B-N150	DIN-Rail mount heat sink-for G3NA 225, 240, 425, 440 models	
		Y92B-N100	DIN-Rail mount heat sink-for G3NA 220, 420 models	
		Y92B-N50	DIN-Rail mount heat sink for G3NA 205, 210, 410 models	
		R99-12 FOR G3NA	G3NA DIN-rail mounting bracket (no heat sink)	
<a href="#">G3PE</a>		G3PE-225B DC12-24	25A, 1-phase, 240VAC out, 24VDC in, zero cross	DIN-rail mounting solid state relay with integrated heat sink for low heat generation. Equipped with zero cross function and screw terminals. Single and three-phase models available for high load heater applications.
		G3PE-245B DC12-24	45A, 1-phase, 240VAC out, 24VDC in, zero cross	
		G3PE-525B DC12-24	25A, 1-phase, 480VAC out, 24VDC in, zero cross	
		G3PE-545B DC12-24	45A, 1-phase, 480VAC out, 24VDC in, zero cross	
		G3PE-225B-3N DC12-24	25A, 3-phase, 3-pole, 240VAC out, 24VDC in	
		G3PE-245B-3N DC12-24	45A, 3-phase, 3-pole, 240VAC out, 24VDC in	
<a href="#">G3NE</a>		G3NE-210T-US DC5	10A, 100-240VAC out, 5VDC in, zero cross	Compact SSR rated from 5 - 20 A. Features quick-connect #110 input terminals and #250 output connections.
		G3NE-205T-US DC12	5A, 100-240VAC out, 12VDC in, zero cross	
		G3NE-210T-US DC12	10A, 100-240VAC out, 12VDC in, zero cross	
		G3NE-210T-US DC24	10A, 100-240VAC out, 24VDC in, zero cross	
		G3NE-220T-US DC24	20A, 100-240VAC out, 24VDC in, zero cross	






The zero cross function causes the relay to turn ON when the AC load power supply approaches 0 V. This suppresses noise and minimizes the surge current through the load. Zero crossing relays are ideal for resistive heaters, lamps and ballasts.

# Monitoring

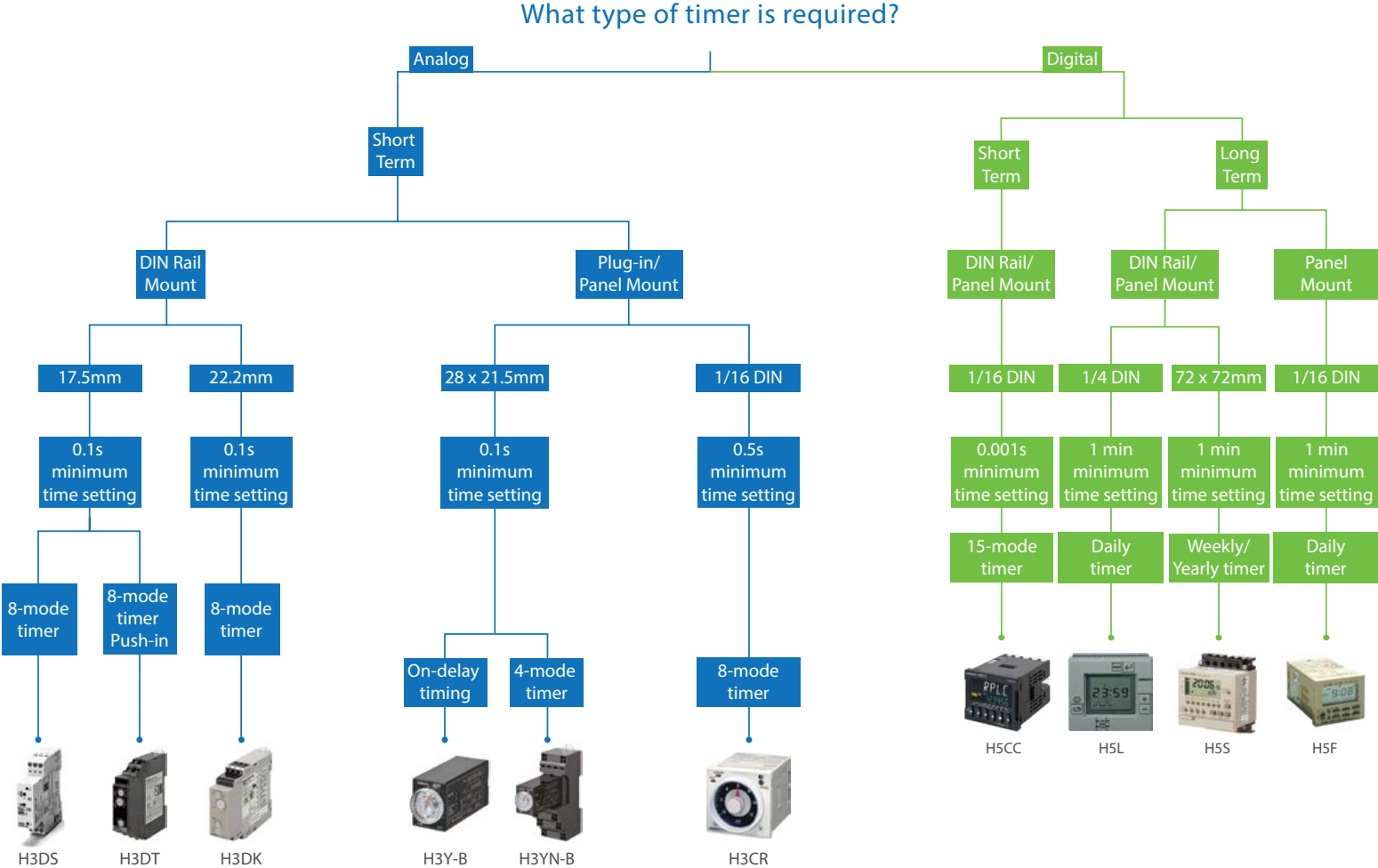


Associated Product Catagories	Use Case	Product Familes
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Solid State Relays	Solid state relays used to control on/off switching quickly for heating or lighting applications	G3RV, G3NA, G3PA, G3PE, G3MC
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control.	J7KC, J7KCR, J7MC, J7TC, J7KCA
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Indicators	Can be used to visually indicate status	M16, M165, M22N, M3U, M2S

# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">K8AK-TH</a>		K8AK-TH11S 100-240VAC	Temperature monitoring relay, thermocouple/RTD, 100-240 VAC input, SPDT output	Monitors temperature increases in equipment using a thermocouple or RTD input. Available latching feature. Ideal for monitoring overheating heaters.
		K8AK-TH11S 24VAC/DC	Temperature monitoring relay thermocouple/RTD, 24 VAC/VDC input, SPDT output	
<a href="#">K8AK-LS1</a>		K8AK-LS1 100-240VAC	Conductive level controller, 100-240 VAC/VDC input, SPDT output	Monitors liquid level in industrial facilities using an electrode input. Ideal for monitoring water/waste water storage tank levels.
		K8AK-LS1 24VAC/DC	Conductive level controller, 24 VAC/VDC input, SPDT output	
<a href="#">K8AK-PH</a>		K8AK-PH1 200/500VAC	Phase loss monitor, three-phase, 200-480VAC input voltage, DPDT output	Monitors phase loss in three-phase motors. Ideal for monitoring phase loss in escalators and conveyors.
<a href="#">K8AK-AS</a>		K8AK-AS1 24VAC/DC	Current monitoring relay, single-phase, 2 to 500mA, SPDT output	Monitors overcurrent and undercurrent conditions of equipment. Ideal for monitoring. Ideal for monitoring abnormal motor loads.
		K8AK-AS2 24VAC/DC	Current monitoring relay, single-phase, 0.1 to 8 A, SPDT output	
<a href="#">K8AK-VW</a>		K8AK-VW2 24VAC/DC	Over/Undervoltage monitoring relay, single-phase, 24 VAC/DC input, two SPDT outputs, 1-150 VAC setting	Monitors over voltage and undervoltage levels in equipment. Ideal for monitoring abnormal voltage conditions in batteries and communication systems.





# Timers | Manufacturing timers for 90 years



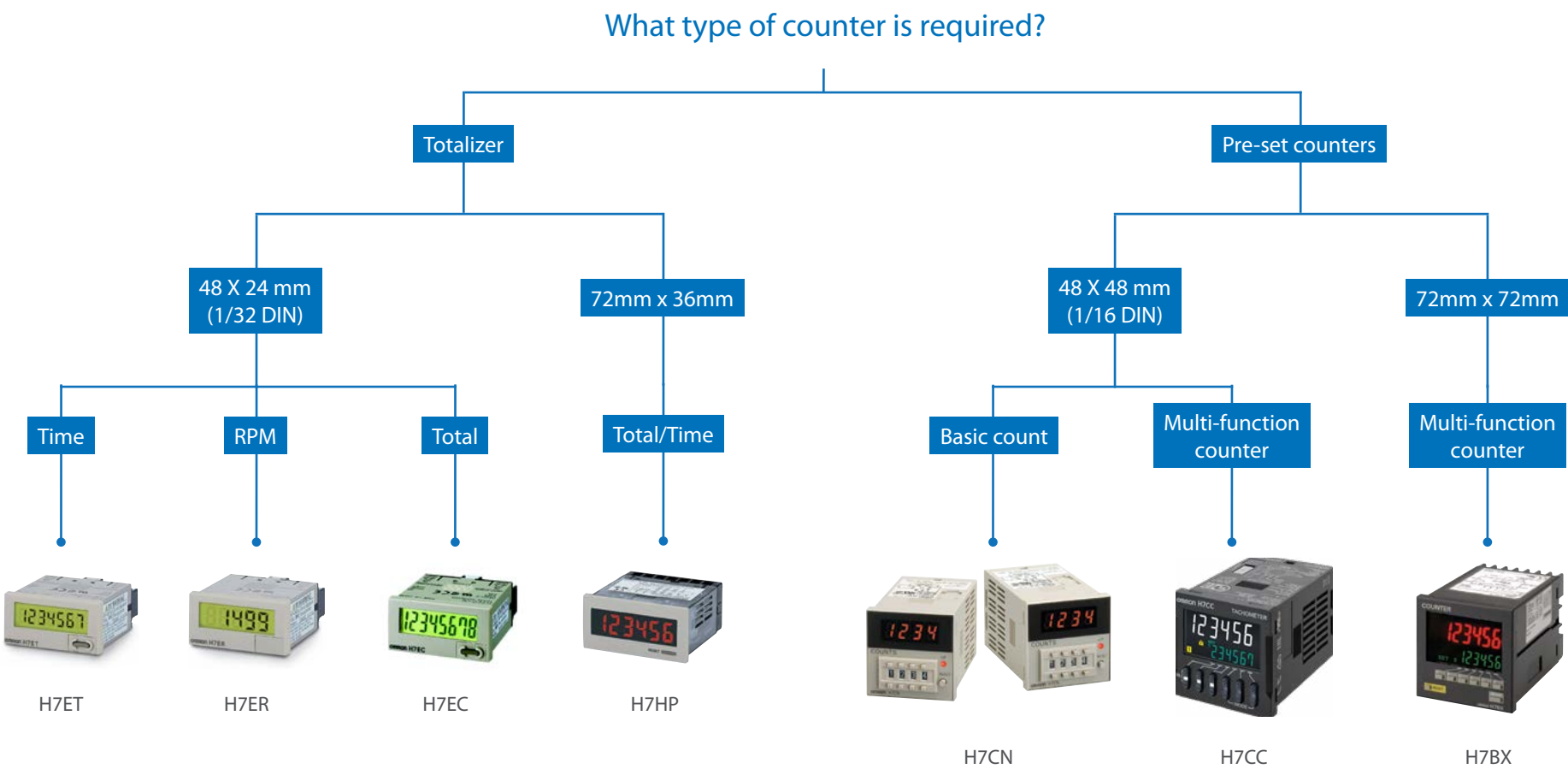
Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel.	S8VK-G, S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices	G2RV, G2RS, MY, LY
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Digital Panel Meters	Panel mount device used to display a variety of inputs with limited output functionality	K3GN, K3MA, K3HB, K3MA
Indicators	Can be used to visually indicate status	M16, M16S, M22N, M3U, M2S



# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">H5CC</a>		H5CC-A	Multi-Mode Digital Timer, Screw Terminals, Contact Output, 100-240 AC	Digital timer with 6-digit display. 15 timing modes and 4 twin timer modes (On-delay, interval, twin timer, flicker and more).
		H5CC-AD	Multi-Mode Digital Timer, Screw Terminals, Contact Output, 12-48 DC, 24 AC	
		H5CC-A11F	Multi-Mode Digital Timer, 11-pin Socket, Contact Output, 24-240V	
<a href="#">H3CR</a>		H3CR-A8 AC24-48 DC12-48	Multi-function timer, 8 pin, 24-48VAC/12-48VDC input	Simple analog solid state timer with 20 time range settings and multi-operating modes (On-delay, flicker, interval, signal on/off delay, one shot and more).
		H3CR-A8 AC100-240 DC100-125	Multi-function timer, 8 pin, 100-240VAC/100-125VDC input	
		H3CR-F8 AC24-48 DC12-48	Twin-timer, 8 pin, 24-48VAC/12-48VDC input	
		H3CR-F8 AC100-240 DC100-125	Twin-timer, 8 pin, 100-240VAC/100-125VDC input	
<a href="#">H3DT</a>		8 different operating modes	Contact Output, DPDT (time-limit DPDT, or time-limit SPDT + instantaneous SPST) change using a switch	H3DT-N2
			Contact Output, SPDT (time-limit SPDT)	H3DT-N1
		Power ON-delay	Contact Output, DPDT (time-limit DPDT)	H3DT-A1
			Contact Output, DPDT (time-limit DPDT)	H3DT-A2
<a href="#">H3YN-B</a>		H3YN-2-B DC24	DPDT, 0.1s-10min, black, 24VDC input	Plug-in analog timer with four time ranges and four operation modes (On delay, interval, flicker-off start, flicker on start). Push-in terminal sockets.
		H3YN-2-B AC100-120	DPDT, 0.1s-10mn, black, 100-120VAC input	
		H3YN-4-B DC24	4PDT, 0.1s-10min, black, 24VDC input	
		H3YN-4-B AC100-120	4PDT, 0.1s-10min, black, 100-120VAC input	
		PYF-08-PU-L	Push-in Plus Socket for H3Y(N)-2-B timers	
		PYF-14-PU-L	Push-in Plus Socket for H3Y(N)-4-B timers	

# Counters



Associated Product Catagories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices	G2RV, G2RS, MY, LY
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Digital Panel Meters	Panel mount device used to display a variety of inputs with limited output functionality	K3GN, K3MA, K3HB, K3MA
Indicators	Can be used to visually indicate status	M16, M16S, M22N, M3U, M2S

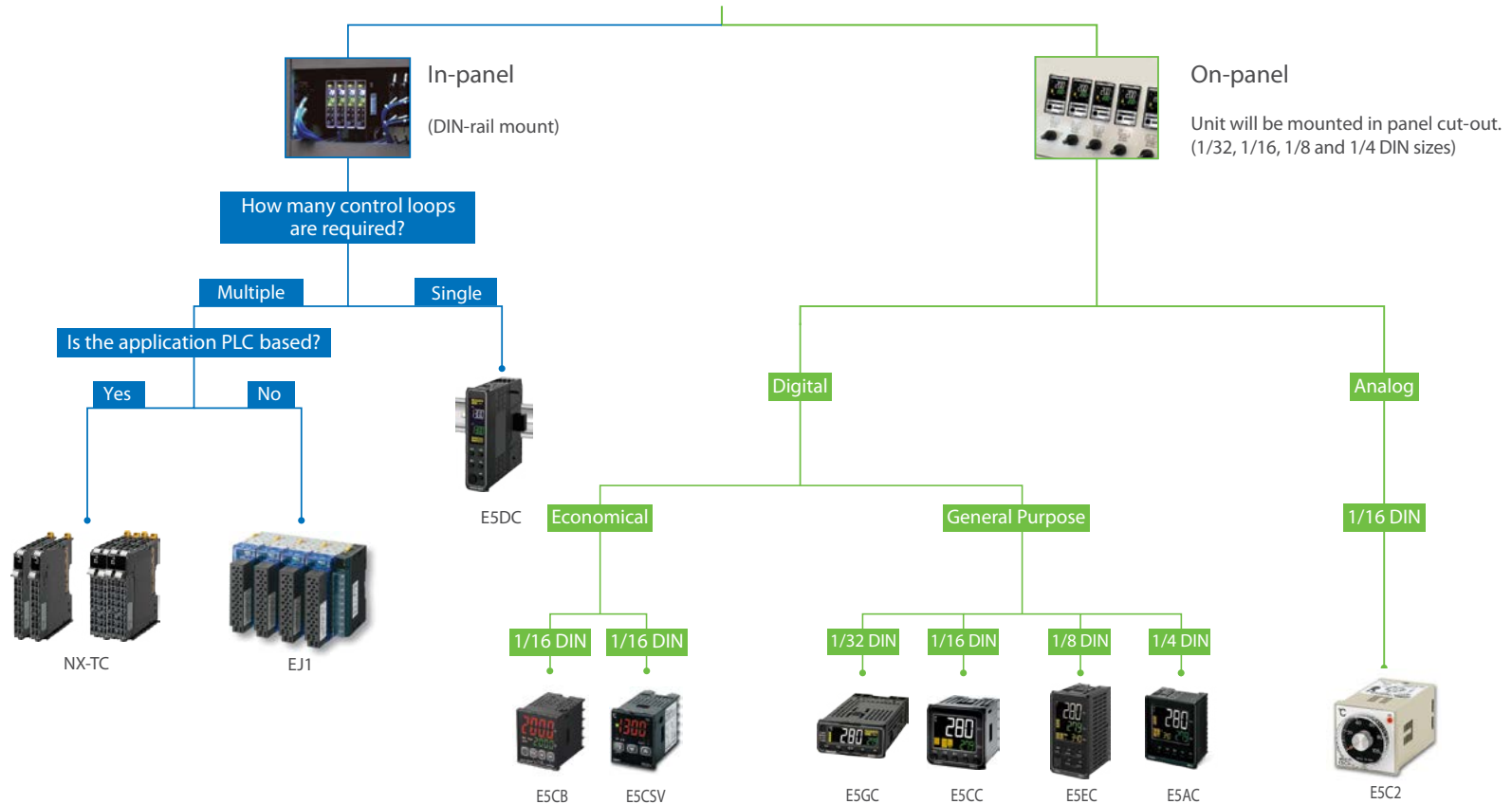
# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">H7CC</a>		H7CC-AD	Counter, 6 digit, contact output, 12-48VDC input, screw terminal	Pre-Set Multi-Function Counter/Tachometer in a 1/16 DIN size, 6 digit display, display characters are white for easier visibility, screw terminal or socket interface
		H7CC-A	Counter, 6 digit, contact output, 120-240VAC input, screw terminal	
		H7CC-AW	Counter, 6 digit, 2-Stage multifunction, contact output, 120-240VAC, screw terminal	
		H7CX-AWD	Preset counter/tachometer multi-function, 6-digit, 2-stage, 12-48VDC input, screw terminal	
		H7CC-A11	Counter, 6 digit, contact output, 120-240VAC input, 11-pin socket	
<a href="#">H7BX</a>		H7BX-A AC100-240	Counter, 6 digit, 120-240VAC input, screw terminal	Scalable full feature pre-set counter/batch counter/dual counter/tachometer, 72mm x 72mm, DIP switch settings, 30hz or 5khz speed. Highly visible 6 digit display
		H7BX-AD1 AC24DC1224	Counter, 6 digit, 12-24VDC input, screw terminal	
		H7BX-AW AC100-240	Preset counter/tachometer multi-function, 6-digit, 30hz or 10khz, 120-240VAC input, screw terminal	
<a href="#">H7CN</a>		H7CN-XHN AC100-240	Flush mount, 4 digit, SPST-NO contact, Up counting, 30 cycles/sec max	Basic 1/16 DIN digital counter with a 4 digit display
<a href="#">H7EC</a>		H7EC-N-B	Totalizer, no-voltage contact input, black, 30hz-1khz counting speed	Totalizer in 1/32 DIN size, self powered, 8 digit display, 30hz-1khz, PNP/NPN DC input available. Typically used for basic counting of units/cycles in a self powered small form factor
		H7EC-NFV-B	Totalizer, AC/DC multi-voltage input, 20hz counting speed	
		H7EC-NV-B	Totalizer, PNP/NPN universal DC input, 30hz-1khz counting speed	
		H7ET-N-B	Totalizer, no-voltage contact input, 30hz-1khz counting speed, black	
		H7ET-NFV-B	Totalizer, AC/DC multi-voltage input, 20hz counting speed	
		H7EC-N	Totalizer, no-voltage contact input, 30hz-1khz counting speed	
		H7EC-NV-BH	Totalizer, PNP/NPN universal DC input, 30hz-1khz counting speed	
<a href="#">H7HP</a>		H7HP-A	6 Digit display, IP66/NEMA4, NPN/PNP input, 66mm depth, light gray, 120-240VAC supply	Compact body total counter/time counter with large easy to read display
<a href="#">H7ER</a>		H7ER-NV	7 segment LCD, 4 digit, 1-60 pulse/rev, PNP/NPN universal DC input, white body,	Large display tachometer with improved appearance and additional features
<a href="#">H7ET</a>		H7ET-N-B	7 segment LCD, no-voltage input, longer time range	Subminiature time counter with enhanced appearance and additional features
		H7ET-N1-B	7 segment LCD, no-voltage input, shorter time range	
		H7ET-NFV-B	7 segment LCD, AC/DC multi-voltage input, longer time range	
		H7ET-NFV1-B	7 segment LCD, AC/DC multi-voltage input, shorter time range	

# Temperature Controllers

Manufacturing temperature controllers for over 40 years

Where will the temperature controller be mounted?



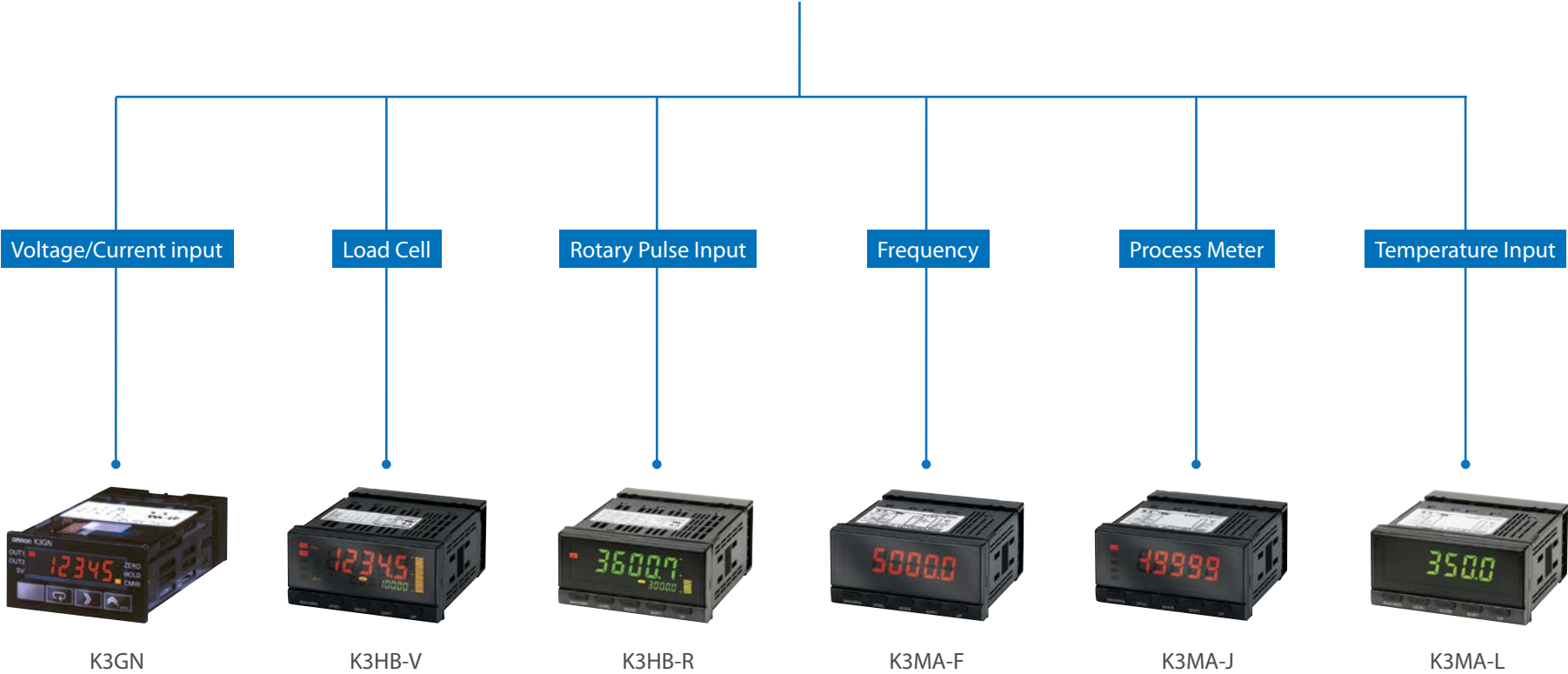
Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel.	S8VK-G, S8VK-X, S8FS-G, S8VK-C
Solid State Relays	Solid state relays used to control on/off switching quickly for heating or lighting applications	G3RV, G3NA, G3PA, G3PE, G3MC
Predictive Maintenance	Used to monitor equipment condition and predict failure	K6CM, K6PM, K7GE, K7TM
Monitoring Products	Detects voltage, current, temperature, fluid level or phase errors to protect equipment	K8DT, K8AK, K8DS
Pushbuttons&E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NN, A30NN, A22NE, A2W

# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">E5CC</a>		E5CC-RX3A5M-000	1/16 DIN, 100 - 240 VAC input, relay output, 3 aux, screw terminal w/cover	Standard 1/16 DIN temperature controller FM approved and plug-in models available
		E5CC-QX3A5M-000	1/16 DIN, 100 - 240 VAC input, voltage output, 3 aux, screw terminal w/cover	
		E5CC-RX3D5M-000	1/16 DIN, 24 VAC/VDC input, relay output, 3 aux, screw terminal w/cover	Key Applications: Boilers, ovens, furnace, frying equipment, vertical/horizontal sealing equipment, packaging equipment, injection molding, chillers, water treatment
		E5CC-QX3D5M-000	1/16 DIN, 24 VAC/VDC input, voltage output, 3 aux, screw terminal w/cover	
		E5CC-CX3A5M-000	1/16 DIN, 100 - 240 VAC input, linear current output, 3 aux, screw terminal w/cover	
<a href="#">E5GC</a>		E5GC-QX0A6M-000	1/32 DIN, 100 - 240 VAC input, voltage output, screw terminal w/cover	Compact 1/32 DIN temperature controller FM approved models available
		E5GC-QX1A6M-000	1/32 DIN, 100 - 240 VAC input, 1 aux, voltage output, screw terminal w/cover	
		E5GC-RX0A6M-000	1/32 DIN, 100 - 240 VAC input, relay output, screw terminal w/cover	Key Applications Small adhesion, labeling and sealing equipment
		E5GC-RX1A6M-000	1/32 DIN, 100 - 240 VAC input, relay output, 1 aux, screw terminal w/cover	
<a href="#">E5EC</a>		E5EC-RX4A5M-000	1/8 DIN, 100-240 VAC, relay output, 4 aux, screw terminal w/cover	1/8 DIN temperature controller
		E5EC-RR4A5M-000	1/8 DIN, 100-240 VAC, dual relay output, 4 aux, screw terminal w/cover	
		E5EC-QX4A5M-000	1/8 DIN, 100-240 VAC, voltage output, 4 aux, screw terminal w/cover	Key Applications: Boilers, ovens, furnace, frying equipment, vertical/horizontal sealing equipment, packaging equipment, injection molding, chillers, water treatment
		E5EC-RX4D5M-000	1/8 DIN, 24 VAC/VDC input, relay output, 4 aux, screw terminal w/cover	
<a href="#">E5DC</a>		E5DC-RX2ASM-000	DIN-rail mount, 100-240VAC input, relay output, 2 aux, screw terminal	In-panel, DIN-rail mount temperature controller. Equipped with socket for easy replacement. Ideal for HMI and PLC connections. FM approved models available
		E5DC-QX2DSM-002	DIN-rail mount, 24VAC/VDC input, voltage output, 2aux, RS-485, heater burnout alarm, screw terminal	Key Applications Industrial furnaces and water treatment equipment equipped with an HMI or PLC




# Digital Panel Meter

What type of input is used with the panel meter?



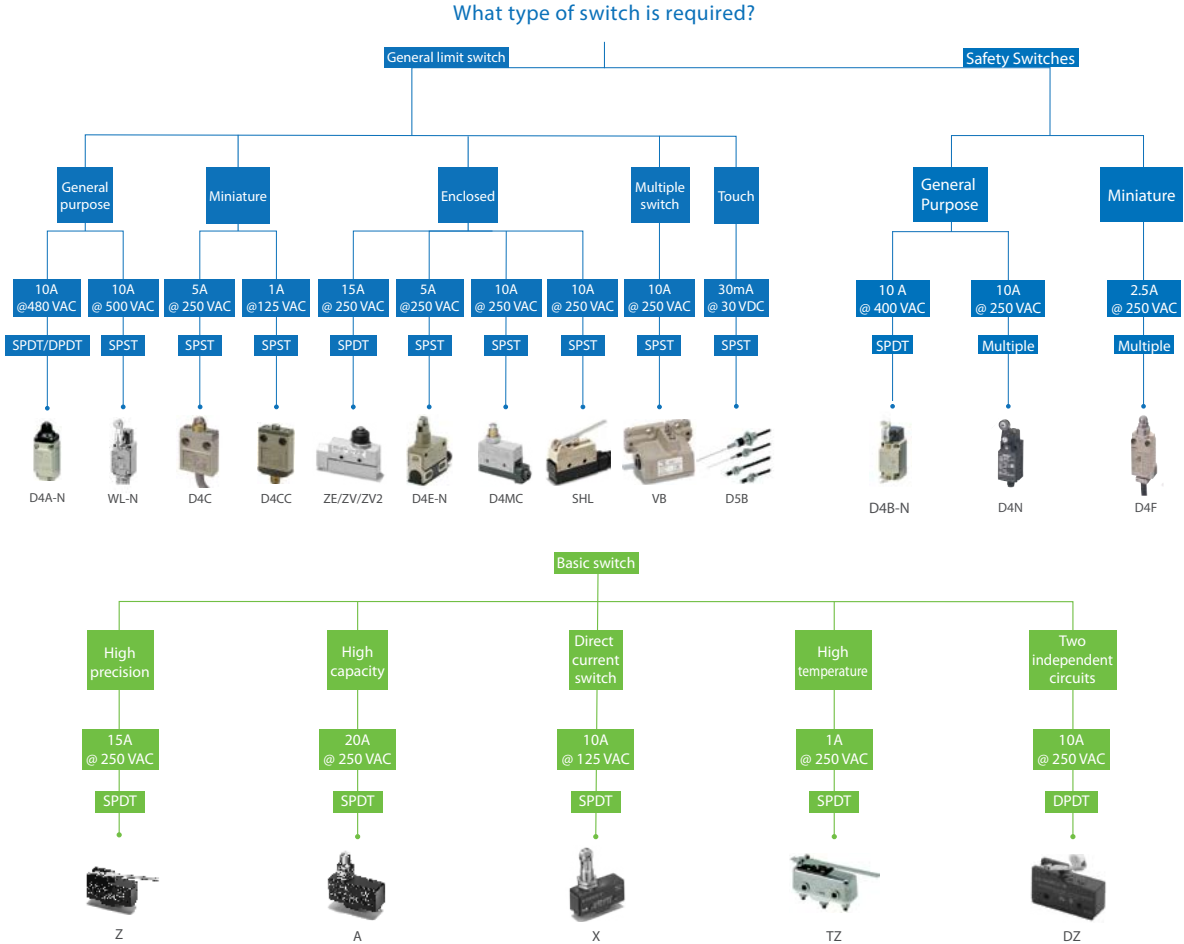
Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices.	G2RV, G2RS, MY, LY
Solid State Relays	Solid state relays used to control on/off switching quickly for heating or lighting applications	G3RV, G3NA, G3PA, G3PE, G3MC
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control.	J7KC, J7KCR, J7MC, J7TC, J7KCA
Timers/Counters	Counting or Timing based on an input signal	H5CX, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Indicators	Can be used to visually indicate status	M16, M16S, M22N, M3U, M2S

# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">K3MA-J</a>		K3MA-J 24VAC/VDC	Process meter, 24 VAC/VDC input	Process meter that uses multi-range DC voltage/current inputs.
		K3MA-J-A2 24VAC/VDC	Process meter, 24VAC/VDC input, two SPST outputs	
		K3MA-J 100-240VAC	Process meter, 100-240 VAC input	
		K3MA-J-A2 100-240VAC	Process meter, 100-240 VAC input, two SPST outputs	
<a href="#">K3MA-F</a>		K3MA-F 24VAC/VDC	Frequency/rate meter, 24/VAC/VDC VAC input	Frequency/rate meter that uses contact, NPN, PNP, or voltage pulse input.
		K3MA-F-A2 24VAC/VDC	Frequency/rate meter, 24/VAC/VDC VAC input, two SPST outputs	
		K3MA-F 100-240VAC	Frequency/rate meter, 100-240 VAC input	
		K3MA-F-A2 100-240VAC	Frequency/rate meter, 100-240 VAC input, two SPST outputs	
<a href="#">K3MA-L</a>		K3MA-L 24VAC/VDC	Temperature meter, 24VAC/VDC input	Temperature meter that uses thermocouple or platinum resistance thermometer input.
		K3MA-L-C 24VAC/VDC	Temperature meter, 24VAC/VDC input, SPDT output	
		K3MA-L 100-240VAC	Temperature meter, 100-240VAC/VDC input	
		K3MA-L-C 100-240VAC	Temperature meter, 100-240VAC/VDC input, SPDT output	
<a href="#">K3HB-X</a>		K3HB-XAA 100-240VAC	Process indicator, 100-240VAC input, AC current input sensor	Process indicator that measures voltage/current signals.
		K3HB-XAD 100-240VAC	Process indicator, 100-240VAC input, DC current input sensor	
		K3HB-XVD 100-240VAC	Process indicator, 100-240VAC input, DC voltage input sensor	
<a href="#">K3GN</a>		K3GN-NDC 24VDC	Multi-input panel meter, 24 VDC input, two SPST outputs, DC voltage/current NPN	Multi-input panel meter that uses DC voltage/current or rotary pulse inputs.
		K3GN-PDC 24VDC	Multi-input panel meter, 24 VDC input, two SPST outputs, DC voltage/current PNP	








# Limit Switches and Basic Switches | Manufacturing limit switches for over 60 years








Associated Product Catagories	Use Case	Product Familes
Power Supplies	Powering the devices connected to your control panel.	S8VK-G,S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices	G2RV, G2RS, MY, LY
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control.	J7KC, J7KCR, J7MC, J7TC, J7KCA
Predictive Maintenance	Used to monitor equipment condition and predict failure	K6CM, K6PM, K7GE, K7TM
Timers/Counters	Counting or Timing based on an input signal.	H5CX, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC

Type	Series	Features	Applications
General Limit Switches	D4A	Wide temperature range from -40°C to +100°C (standard type) for use in heavy duty applications	Machine tool, material handling, palletizer, injection molding, packaging equipment, automotive hoist/lift machinery
	WL-N	Two-circuit switch for reliable switching	
	D4C	Slim body and designed for easy side-by-side mounting (Plunger type: 6 switches maximum)	Machine tool, material handling, palletizer, packaging equipment, mobile lift equipment, robotics
	ZE	Long service life and high breaking capacity	Conveyor controls, packaging equipment, material handling, printing machinery, waste & recycling compacting machinery
	SHL	Rated IP67, rigid zinc die-cast alloy housing with available molded terminals and indicators	
Safety Limit Switches	D4B-N	Rated IP67, rigid metal housing, -40 to +80°C operating temperature	Packaging equipment, palletizer, automotive hoist/lift machinery, machine tool
	D4F	Smallest class safety switch, ideal for harsh environments and continuous duty cycles, extra slim housing with high sensitivity detection	Machine tooling, automotive manufacturing, robotics
	D4N	Versatile design in combination with its plastic housing makes the D4N series the ideal switch for all standard mechanical positions for detection applications. Conforms to international standards.	Machine tool, material handling, palletizer, injection molding, packaging equipment, automotive hoist/lift machinery
Basic Switches	Z	A large switching capacity of 15A and high repeat accuracy	Elevators, mobile lift equipment, forklift, injection molding, utility switchgear, controls for doors/gates/valves, foot switches
	A	High-capacity switch capable of handling 20A loads and maximum permissible inrush current of 75A	
	X	Direct current switch that incorporates a permanent magnet in the contact mechanism to deflect arcs and increases switch life	Mobile lift equipment, forklift, injection molding, utility switchgear, controls for doors/gates/valves, foot switches
	DZ	Double pole double throw basic switch for two independent circuit control. Ideal for switching the circuits operating on two different voltages, and controlling two circuits.	
	TZ	High temperature switch that maintains stable operation at an ambient temperature of 400°C	Industrial boilers, power plant, incinerators, industrial heaters

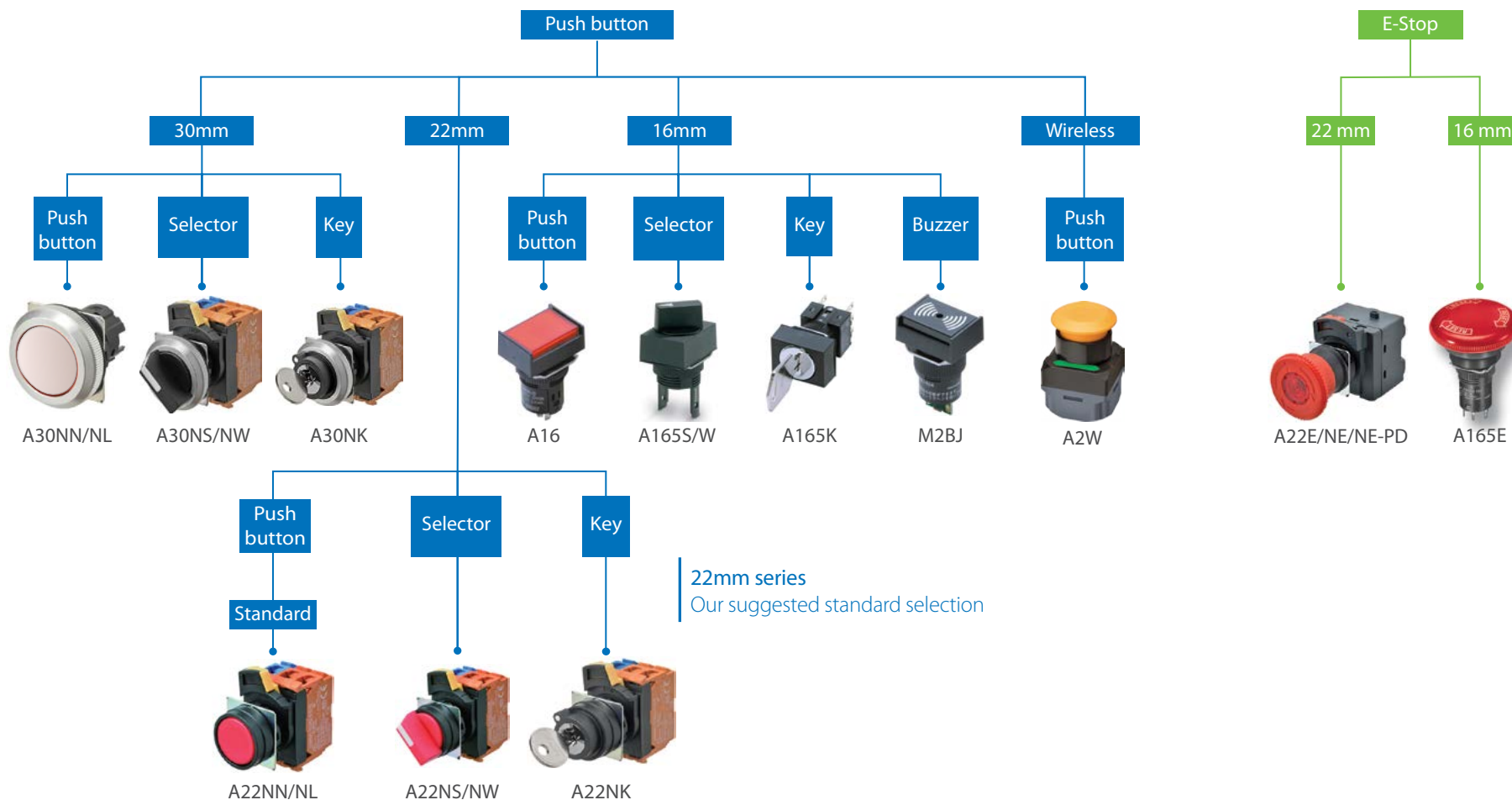
# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">WL-N</a>		WLG2-LD	High sensitivity, 10 A, SPST, roller lever, LED indicator	Two-circuit switch with environment resistant, spatter-proof, long life, I/O and operation indicator models available  Mounting hole spacing: 30.2 mm (w) x 58.7 mm (h)
		WLNJ-TS-N	Standard, 10 A, SPST, flexible rod, ground terminal included	
		WLCA2-LD-N	Standard, 10 A, SPST, roller lever, LED indicator	
		WLCA12-2TS-N	Standard, 10 A, SPST, adjustable roller lever, ground terminal included	
		WLNJ-N	Standard, 10 A, SPST, flexible rod	
		WLCA2-TS-N	Standard, 10 A, SPST, roller lever, ground terminal	
		WLCA2-N	Standard, 10 A, SPST, roller lever	
		WLCA12-N	Standard, 10 A, SPST, adjustable roller lever	
		WLCA2-2N-N	Standard, 10 A, SPST, roller lever w/ 20° max travel	
<a href="#">D4A-N</a>		D4A-2918-N	Center neutral operation, 10 A, DPDT, roller lever	Operating temperature range of -40°C to 100°C. Double oil seal for chemical resistance. Operation indicator models available  Mounting hole spacing: 29.4 mm (w) x 59.5 mm (h)
		D4A-1101-N	Standard 10 A, SPDT, roller lever	
		D4A-1102-N	High sensitivity, 10 A, SPDT, roller lever	
		D4A-2501-N	Standard, 10 A, DPDT, roller lever	
		D4A-1110-N	Standard 10 A, SPDT, top plunger	
		D4A-1114-N	Standard 10 A, SPDT, flexible plastic rod	
<a href="#">D4C</a>		D4C-1620	Standard, SPST, 5 A, roller lever, 3 m cable	IP67 rated miniature enclosed switch with triple seal construction. Optional LED operation indicator and 3 m & 5 m cable models  Mounting hole spacing: 25 mm
		D4C-1602	Standard, SPST, 5 A, roller plunger, 3 m cable	
		D4C-1650	Standard, SPST, 5 A, plastic rod, 3 m cable	
		D4C-1631	Standard, SPST, 5 A, sealed pin plunger, 3 m cable	
		D4C-1632	Standard, SPST, 5 A, sealed roller plunger, 3 m cable	
<a href="#">ZE</a>		ZE-NJ-2S	Sealed boot, 15 A, SPDT, flexible rod	General purpose enclosed limit switch with three mounting variation models for greater mounting flexibility  Mounting hole spacing: 25.4 mm
		ZE-N-2S	Sealed boot, 15 A, SPDT, plunger	
		ZE-N22-2S	Sealed boot, 15 A, SPDT, roller plunger	
		ZE-NA2-2S	Sealed boot, 15 A, SPDT, roller arm lever	
		ZE-Q22-2S	Standard, 15 A, SPDT, roller plunger	
		ZE-Q-2S	Standard, 15 A, SPDT, plunger	
<a href="#">D4B-N</a>		D4B-4113N-NPT	Safety Limit Switch, M20 Conduit, Snap Adjustable rubber roller, SPDT 10A 120V	Robust safety limit switch with metal housing slow-action and snap-action contact with certified direct opening operation certification. Ideal for harsh environment due to rugged metal housing and increased temperature range.
		D4B-4116N-NPT	Safety Limit Switch, M20 Conduit, Snap Adjustable resin roller lever, SPDT 10A 120V	
		D4B-2116N	Safety Limit Switch, G1/2 Conduit, Snap Adjustable roller lever, SPDT 10A 120V	
		D4B-4170N-NPT	Safety Limit Switch, M20 Conduit, Snap action top plunger, SPDT 10A 120V	
		D4B-2171N	Safety Limit Switch, G1/2 Conduit, Snap Action top roller plunger, SPDT 10A 120V	
		D4B-4111N	Safety Limit Switch, M20 Conduit, Snap Action resin roller lever, SPDT 10A 120V	
		D4B-4117N	Safety Limit Switch, M20 Conduit, Snap Action rod lever, SPDT 10A 120V	

# Suggested Part Numbers

Model		Part Number	Description	Notes
<a href="#">D4F</a>		D4F-120-5R	Small Safety Limit Switch, Slow Action roller level/metal roller, 5M, Horizontal	Smallest class of safety limit switch in the world, Typically used in heavy-duty machines with limited space for safety devices. Ideal for operating in harsh environments with frequent and continuous duty cycles. The D4F series offers a slim body, robust metal housing, and pre-wired version for easy installation. In addition, its high sensitivity contributes to reducing unplanned downtime, boosting your machine's productivity while protecting your people.
		D4F-302-3R	Small Safety Limit Switch, 2NC/2NO Slow Action roller plunger/metal roller, 3M, Horizontal	
		D4F-302-3D	Small Safety Limit Switch, 2NC/2NO Slow Action roller plunger/metal roller, 3M, vertical	
		D4F-302-5R	Small Safety Limit Switch, 2NC/2NO Slow Action roller plunger/metal roller, RM, Horizontal	
		D4F-120-15R	Small Safety Limit Switch, 1NC/1NO Slow Action rolloer lever/metal, 5M, Horizontal	
<a href="#">D4N</a>		D4N-112G	Safety Limit Switch, Pg13.5, 1NC/NO snap action, 1Conduit, Adjust roller/form lock, resin roller	Popular safety limit switch with a full line conforming to international standards. Versatile design in combination with its plastic housing makes the D4N series the ideal switch for all standard mechanical positions for detection applications. M12 connector options and a wide variety of actuators reduce your installation costs and simplify your troubleshooting activities.
		D4N-212G	Safety Limit Switch, G1/2, 1NC/NO snap action, 1Conduit, Adjust roller/form lock, resin roller	
		D4N-4132-NPT	Safety Limit Switch, M20, 1NC/1NO snap action, 1Conduit, roller plunger 240V	
		D4N-2187	Safety Limit Switch, G1/2, 1NC/1NO snap action, 1Conduit, Plastic rod	
		D4N-412G	Safety Limit Switch, M20, 1NC/NO snap action, 1Conduit, Adjust roller/form lock, resin roller	
		D4N-2132	Safety Limit Switch, G1/2, 1NC/1NO snap action, 1Conduit, roller plunger	
		D4N-2C20	Safety Limit Switch, G1/2, 2NC/1NO snap action, 1Conduit, ResinRollerResin/lever	
		D4N-2120	Safety Limit Switch, G1/2, 1NC/1NO snap action, 1Conduit, ResinRollerResin/lever	
<a href="#">Z</a>		Z-15GW22S-B	Standard, 15 A, SPDT, short hinge roller lever, screw terminal	General purpose basic switch with high precision capability  Mounting hole spacing: 25.4 mm
		Z-15GQ-B	Standard, 15 A, SPDT, panel mount plunger, screw terminal	
		Z-15HW24-B	High sensitivity/microload, 15 A, SPDT, low force hinge lever, screw terminal	
		Z-15GW2-B7-K	Standard, 15 A, SPDT, hinge roller lever, screw terminal w/toothed lock washer, 3.7mm mounting hole dia.	
		Z-15GQ-B7-K	Standard, 15 A, SPDT, panel mount plunger, screw terminal w/toothed lock washer, 3.7mm mounting hole dia.	
		Z-15GW22-B	Standard, 15 A, SPDT, short hinge roller lever, screw terminal	
		Z-15GW-B7-K	Standard, 15 A, SPDT, low force hinge lever, screw terminal w/toothed lock washer, 3.7mm mounting hole dia.	
		Z-15GW-B	Standard, 15 A, SPDT, low force hinge lever, screw terminal	
		Z-15GW2-B	Standard, 15 A, SPDT, hinge roller lever, screw terminal	
<a href="#">X</a>		X-10GW22-B	Standard, 10 A, SPDT, short hinge roller lever	Basic switch with built-in magnet to deflect arcing while increasing switch life  Mounting hole spacing: 25.4 mm
		X-10GW-B	Standard, 10 A, SPDT, hinge roller lever	
		X-10GQ22-B	Standard, 10 A, SPDT, panel mount roller plunger	
<a href="#">DZ</a>		DZ-10GW-1B	Special purpose, 10 A, DPDT, hinge lever, high overtravel	Basic switch with DPDT for running two independent circuits  Mounting hole spacing: 25.4 mm
		DZ-10GW22-1B	Special purpose, 10 A, DPDT, short hinge roller lever, high overtravel	
		DZ-10GV22-1B	Special purpose, 10 A, DPDT, short hinge roller lever, low overtravel	
		DZ-10G-1B	Special purpose, 10 A, DPDT, pin plunger	
		DZ-10GW2-1B	Special purpose, 10 A, DPDT, hinge roller lever, high overtravel	

# Pushbuttons and Emergency Stop Switches



Operator Unit	Mounting Collar	LED Lamp	Lighting Unit	Contact Block
				

Omron provides pushbutton sub-assemblies for  
A30NN/NL/NK/NS/NW & A22NN/NL/NK/NS/NW pushbuttons





Build your pushbutton assembly part number using  
Omron's online configuration tool

[http://www.ia.omron.com/product/switches/push-buttons\\_indicator-lamps/specifications-search/](http://www.ia.omron.com/product/switches/push-buttons_indicator-lamps/specifications-search/)

# Suggested Part Numbers

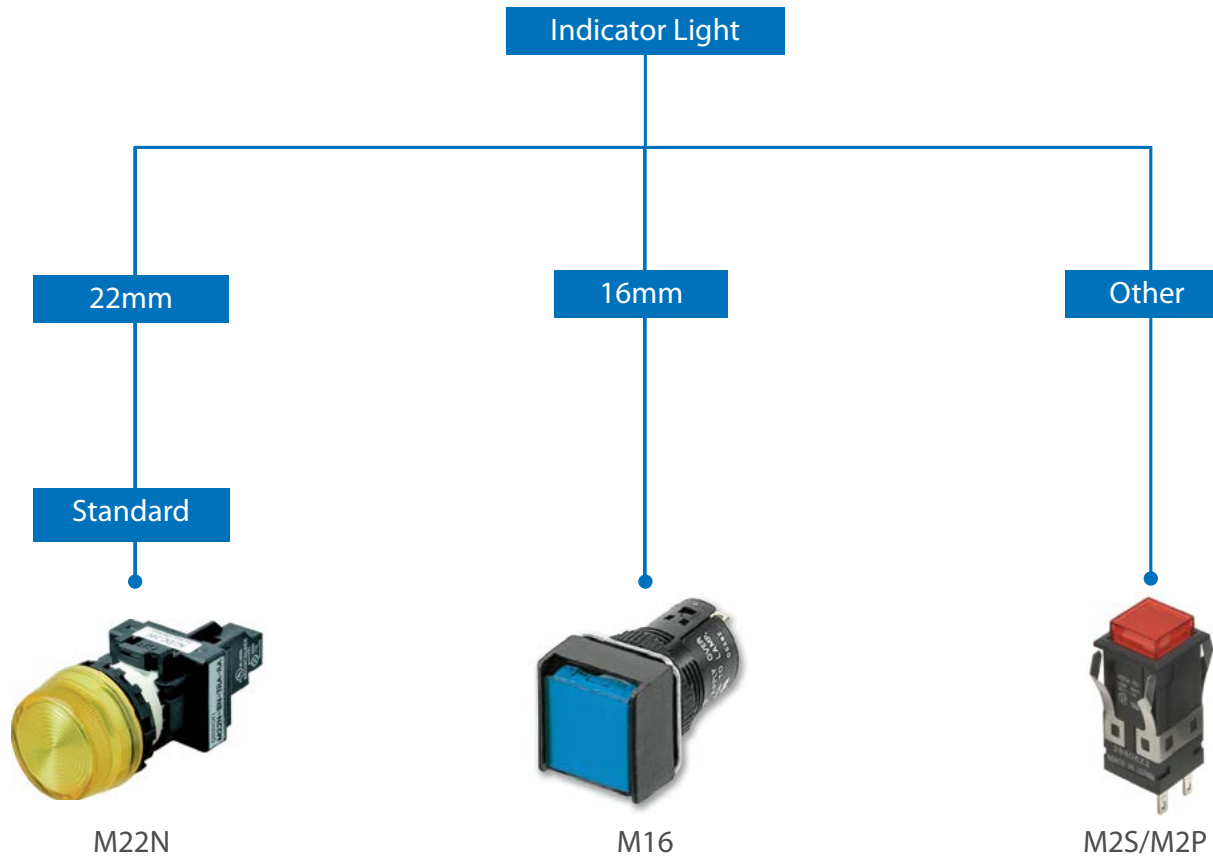
Type	Model		Part Number	Description	Notes
16mm Pushbuttons	<a href="#">A16</a>		A165L-TYM-24D-2	Pushbutton switch, round, DPDT solder terminal, 24VAC/VDC Yellow LED	Standard 16mm pushbutton switch offered in various shapes, colors, finishes and lighting options. Same contacts for std loads vs. microloads
			A165-TRM-1	Pushbutton switch, round, SPDT solder terminal, Red/unlit	
			A165L-TGM-24D-2	Pushbutton switch, round, DPDT solder terminal, 24VAC/VDC Green LED	
			A165-ARM-2	Pushbutton switch, square, DPDT solder terminal, Red/unlit	
			A165L-JRM-24D-2	Pushbutton switch, rectangular, DPDT solder terminal, 24VAC/VDC Red LED	
16mm Selector Switch	<a href="#">A165S</a>		A165W-T2MG-24D-2	Selector switch, round, 2position, DPDT, manual reset, 24VDC green LED backlit, solder terminal	Standard 16mm non-lighted selector switch offered in 2 or 3 position with manual and automatic reset functions
16mm Keyed Selector Switch	<a href="#">A165K</a>		A165K-T2MR-1	Keyed Switch, round, 2 notch, manual reset, SPDT, Solder terminal	Standard 16mm keyed selector switch. Offered in 2 or 3 position with manual or automatic reset functions.
			A165K-T3M-2	Keylock Switch, round, 3 Position DPDT, manual reset, solder terminal	
Wireless Switches	<a href="#">A2W</a>		A2W-RCP-WC1 US	Receiver unit for wireless pushbuttons, 8 channel output, PNP 24VDC	Wireless pushbutton transmitter and receiver. No battery required on pushbuttons. 100m maximum range, ideal for use in retrofits of factories where new process would require rewiring. Also useful on mobile equipment, such as a garage door opener for a forklift, where hard wiring cannot be supported
			A2W-TC-WC1 US2GB	Wireless pushbutton, fullguard head, green	
			A2W-TC-WC1 US2YB	Wireless pushbutton, fullguard head, yellow	
			A2W-TC-WC1 US2RB	Wireless pushbutton, fullguard head, red	
22mm LED pushbutton	<a href="#">A22NN (Flush)</a>		A22NL-RNM-TAA-G100-AC	SWITCH PUSH SPST-NO 10A 120V, LED, Blue, Metal Bezel	Standard 22mm pushbutton switches available in a wide variety of shapes, colors, finishes and lighting. Offered in screw or push-in plus terminals.
			A22NL-RNM-TGA-G100-GC	SWITCH PUSH SPST-NO 10A 120V, LED, Green, Metal Bezel	
			A22NL-RNM-TRA-G100-RC	SWITCH PUSH SPST-NO 10A 120V, LED, Red Metal Bezel	
			A22NL-RNM-TYA-G100-YC	SWITCH PUSH SPST-NO 10A 120V, LED, Yellow Metal Bezel	
			A22NL-RNM-TWA-G100-WC	SWITCH PUSH SPST-NO 10A 120V, LED, White Metal Bezel	
	<a href="#">A22NN (Extended)</a>		A22NL-RPM-TAA-G100-AC	SWITCH PUSH SPST-NO 10A 120V, LED, Blue, Metal Bezel	
			A22NL-RPM-TGA-G100-GC	SWITCH PUSH SPST-NO 10A 120V, LED, Green Metal Bezel	
			A22NL-RPM-TRA-G100-RC	SWITCH PUSH SPST-NO 10A 120V, LED, Red, Metal Bezel	
			A22NL-RPM-TYA-G100-YC	SWITCH PUSH SPST-NO 10A 120V, LED, Yellow Metal Bezel	
			A22NL-RPM-TWA-G100-WC	SWITCH PUSH SPST-NO 10A 120V, LED, White, Metal Bezel	
22mm non-lighted pushbutton	<a href="#">A22NN (Flush)</a>		A22NN-RNM-NBA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, black Metal Bezel	Standard 22mm pushbutton switches available in a wide variety of shapes, colors, finishes and lighting. Offered in screw or push-in plus terminals.
			A22NN-RNM-NYA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Yellow Metal Bezel	
			A22NN-RNM-NGA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Green, Metal Bezel	
			A22NN-RNM-NRA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Red, Metal Bezel	
			A22NN-RNM-NAA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Blue, Metal Bezel	
			A22NN-RNM-NWA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, White, Metal Bezel	
	<a href="#">A22NN (Extended)</a>		A22NN-RPM-NGA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, LED, Green Metal Bezel	
			A22NN-RPM-NRA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Red Metal Bezel	
			A22NN-RPM-NBA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Black Metal Bezel	
			A22NN-RPM-NYA-G100-NN	SWITCH PUSH SPST-NO 10A 120V, Yellow Metal Bezel	

# Suggested Part Numbers

Type	Model		Part Number	Description	Notes
A22NN Contact Blocks	<a href="#">A22NZ</a>		A22NZ-S-G1A	Configurable Contact Block SPST-NO 10A @ 120VAC	Pushbutton contact block for use with A22 series non-LED pushbuttons
			A22NZ-S-G1B	Configurable Contact Block SPST-NC 10A @ 120VAC	
			A22NZ-S-P1A	Configurable Contact Block PUSH-IN+ SPST-NO 10A @ 120VAC	
			A22NZ-S-P1B	Configurable Contact Block PUSH-IN+ SPST-NC 10A @ 120VAC	
			A22NZ-T-A	Configurable Switch Lamp Lamp Socket 6V	Pushbutton contact block for use with A22 series LED pushbuttons
			A22NZ-T-B	Configurable Switch Lamp Lamp Socket 12V	
			A22NZ-T-C	Configurable Switch Lamp Lamp Socket 24V	
			A22NZ-T-D	Configurable Switch Lamp Lamp Socket 120VAC	
			A22NZ-T-E	Configurable Switch Lamp Lamp Socket 240VAC	
22 mm Selector Switch	<a href="#">A22NS</a>		A22NS-3RM-NBA-G101-NN	Selector switch, 3 position, DPST-NO 10 A, black, manual reset, metal bezel	Omron's standard, 22 mm, non-lighted selector switches. Offered in two or three position models with plastic or brushed metal bezels. Contacts are offered in screw and push-in plus terminals.
			A22NS-2RM-NBA-G100-NN	Selector switch, 2 Position, SPST-NO 10 A, manual reset, metal bezel	
22 mm Keyed- Selector Switch	<a href="#">A22NK</a>		A22NK-2RM-01AA-G100	Keyed Selector switch, 2 position, SPST 10 A, manual reset, metal bezel	Omron's standard 22 mm keyed selector switches. Offered in two or three position models with plastic or brushed metal bezels. Available in screw and push-in plus terminals.
16 mm E-stop	<a href="#">A165E</a>		A165E-S-01	Emergency Stop Switch, 30 mm diameter head, SPST-NC	16mm emergency stop switch that will result in open condition during failure. Available in various head types with a wide range of accessories
			A165E-S-02	Emergency Stop Switch, 30 mm diameter head, DPST-NC	
			A165E-S-03U	Emergency Stop Switch, 30 mm diameter head, 3PST-NC	
			A165E-LS-24D-02	Lighted, Emergency Stop Switch, 30 mm diameter head, DPST-NC 24VDC/VAC	
			A165E-LS-24D-01	Lighted, Emergency Stop Switch, 30 mm diameter head, SPST-NC 24VDC/VAC	
			A165E-M-01	Emergency Stop Switch, 40 mm diameter head, SPST-NC	
			A165E-M-02	Emergency Stop Switch, 40 mm diameter head, DPST-NC	
22 mm E-stop	<a href="#">A22E</a>		A22E-M-01	Emergency Stop Switch SPST-NC, 40mm	22mm emergency stop switch that will result in open condition during failure. Available in various head types with a wide range of accessories
			A22E-M-02	Emergency Stop Switch DPST-NC, 40mm	
			A22E-M-03	Emergency Stop Switch 3PST-NC, 40mm	
			A22E-M-02B	Emergency Stop Switch DPST-NC, 40mm	
			A22E-M-11	Emergency Stop Switch DPST-NO/NC, 40mm	
			A22E-S-01	Emergency Stop Switch SPST-NC, 30mm	



# Indicators





Build your pushbutton assembly part number using Omron's online configuration tool

[http://www.ia.omron.com/product/switches/push-buttons\\_indicator-lamps/specifications-search/](http://www.ia.omron.com/product/switches/push-buttons_indicator-lamps/specifications-search/)

Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel.	S8VK-G, S8VK-X, S8FS-G, S8VK-C
Mechanical Relays	Mechanical relays used to control on/off switching of devices.	G2RV, G2RS, MY, LY
Low Voltage Switch Gear	Magnetic contactors for On/Off motor control.	J7KC, J7KCR, J7MC, J7TC, J7KCA
Monitoring Products	Detects voltage, current, temperature, fluid level or phase errors to protect equipment	K8DT, K8AK, K8DS
Timers/Counters	Counting or Timing based on an input signal	H5CX, H3CA, H3CR, H7CC, H7ET
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Pushbuttons&E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NE, A22E, A165E

# Suggested Part Numbers

Type	Model		Part Number	Description	Notes
22mm Indicators	<a href="#">M22N</a>		M22N-BN-TRA-RC	22mm, LED panel indicator, plastic bezel, red, 24VAC/DC	Basic 22mm round indicator light typically used to convey operation status in a compact design, IP66/NEMA4X/NEMA13, screw terminals
			M22N-BC-TYA-YC	22mm, LED panel indicator, plastic bezel, yellow, 24VAC/DC	
			M22N-BC-TGA-GC	22mm, LED panel indicator, plastic bezel, green, 24VAC/DC	
16mm Indicators	<a href="#">M16</a>		M165-TR-24D	16mm, Round LED panel indicator, red, 24VAC/DC	Basic 16mm indicator light typically used to convey status of machinery in control panels. Six color and 4 lense shapes available.
			M165-TG-24D	16mm, Round LED panel indicator, green, 24VAC/DC	
			M165-TY-24D	16mm, Round LED panel indicator, yellow, 24VAC/DC	



**OMRON AUTOMATION AMERICAS HEADQUARTERS** • Chicago, IL USA • 847.843.7900 • 800.556.6766 • [automation.omron.com](http://automation.omron.com)

**OMRON CANADA, INC. • HEAD OFFICE**

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • [automation.omron.com](http://automation.omron.com)

**OMRON ELECTRONICS DE MEXICO • HEAD OFFICE**

Ciudad de México • 52.55.5901.4300 • 01.800.386.6766 • [mela@omron.com](mailto:mela@omron.com)

**OMRON ELECTRONICS DE MEXICO • SALES OFFICE**

San Pedro Garza García, N.L. • 81.12.53.7392 • 01.800.386.6766 • [mela@omron.com](mailto:mela@omron.com)

**OMRON ELECTRONICS DE MEXICO • SALES OFFICE**

Eugenio Garza Sada, León, Gto • 01.800.386.6766 • [mela@omron.com](mailto:mela@omron.com)

**OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE**

São Paulo, SP, Brasil • 55 11 5171-8920 • [automation.omron.com](http://automation.omron.com)

**OMRON ARGENTINA • SALES OFFICE**

Buenos Aires, Argentina • +54.11.4521.8630 • +54.11.4523.8483  
[mela@omron.com](mailto:mela@omron.com)

**OTHER OMRON LATIN AMERICA SALES**

+54.11.4521.8630 • +54.11.4523.8483 • [mela@omron.com](mailto:mela@omron.com)