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## Pilot Devices

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## Active Voltage Conditioners

### 7.14 PCS100 AVC-40

01 PCS100 AVC-40  
Single line diagram

The PCS100 AVC-40 is an active voltage conditioner. It is a high performance power electronic system designed for industrial and large commercial applications. It responds instantly to power quality events, providing continuous regulation of voltage.

With high power capacity, the PCS100 AVC-40 is the perfect solution for industrial loads using significant power as well as large commercial buildings where continuity of service is paramount. The PCS100 AVC-40 is designed to target voltage sag events while also providing protection against swells. Sag events are the major cause of lost production.

#### Key benefits

##### Reduce the cost of sag events

The PCS100 AVC-40 closes the electrical compatibility gap between the supply and plant by protecting the load from utility induced voltage sag events. The PCS100 AVC-40 minimizes the undue stress to the expensive equipment, thus increasing the equipment lifetime.

#### Improve plant operation

The PCS100 AVC-40 regulates the voltage, removing long term undervoltage, overvoltage and voltage imbalance to reduce waste and damage to the expensive equipment. It also removes voltage fluctuations, which can cause process variation, improving the quality of operation of the plant or the facility.

#### Faster return on investment

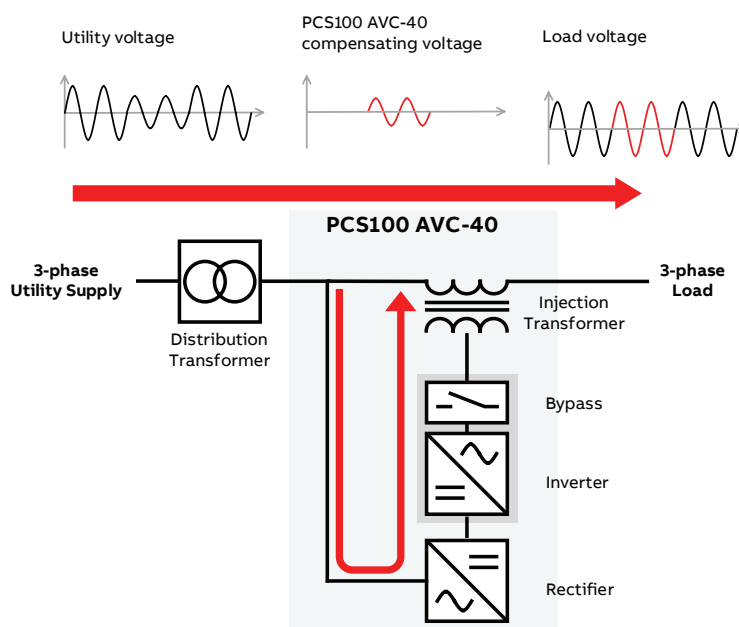
With industry leading efficiency exceeding 98 percent the PCS100 AVC-40 requires minimal costs for electricity and cooling. With no energy storage the ongoing maintenance cost is minimized, resulting in low total cost of ownership.

#### Reduce damage to equipment

The PCS100 AVC-40 protects expensive equipment by regulating the voltage to remove long term undervoltage, overvoltage and voltage imbalances.

#### Key features

- No energy storage
  - Increased system reliability with minimized maintenance
- Very high efficiency
- Continuous online regulation
- Industrial design
- Small footprint
  - Industry leading power density
- Regenerative load support
- Internal bypass
  - Redundant internal bypass design
- Connectivity
  - Ethernet
  - Modbus TCP
  - Integrated web server
  - E-mail notifications
- Multilingual graphical touch screen interface



## Static Frequency Converter

### 7.15 PCS100 SFC - 125 kVA to 10 MVA

PCS100 Static Frequency Converters are commonly used to interconnect 50 Hz and 60 Hz systems.

01 PCS100 SFC diagram

ABB's PCS100 Static Frequency Converter allows the interconnection of grid systems with varying frequencies, offering the ideal solution for shore to ship, plant relocation and testing facility applications.

#### User benefits

- Minimize operating and maintenance costs
- High reliability provides maximum power availability
- Keeps equipment running through utility voltage sags and frequency variation
- N+1 modular redundancy for mission critical applications
- Lowest total cost of ownership
- Minimal spares required
- Easy paralleling to other voltage sources using droop

#### Key product features

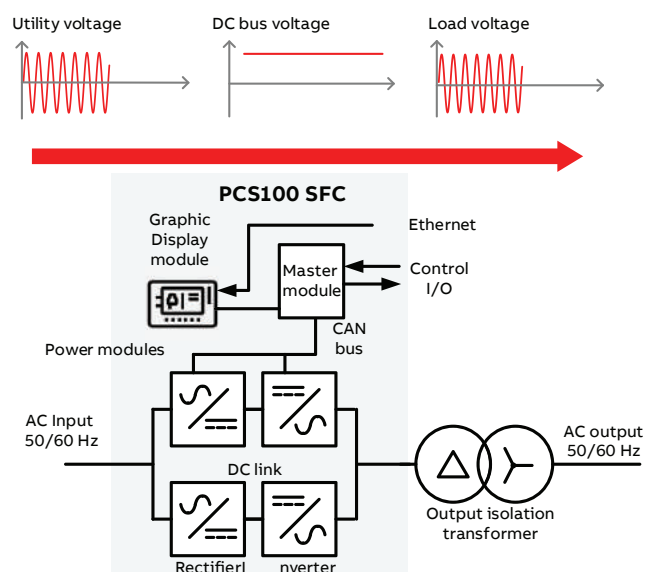
- High efficiency power conversion
- Clean sinewave output voltage
- Unity power factor, sinewave, active rectifier design
- Built-in module redundancy without interruption of operation
- Fully isolated AC connection using an output transformer
- Wide range of voltages available; 50 Hz and 60 Hz
- Small footprint design
- Touch screen colour graphic display (GDM)
- Internal web server and Modbus TCP allows remote monitoring
- Output cable voltage drop compensation
- Seamless generator change over standard (synchronization)
- Generator emulation and load sharing
- Power flow control
- Extensive remote control with extend I/O card

#### How it works

The system is constructed of multiple power electronic modules and functions by converting the input AC power through a sine-wave rectifier to a DC link, and then through an AC sine-wave inverter to produce a clean, full sine-wave output at the new frequency and voltage.

The PCS100 SFC is extremely flexible in terms of paralleling with other voltage sources, either generators or multiple SFC units. Parallel load sharing is achieved using frequency and voltage droop profiles programmed into the converter. This allows the converters to share power with other systems without the need for any additional communication signals.

Starting the SFC into the live bus is greatly simplified due to the automatic output synchronization feature. This enables a full seamless transfer from generator supply to SFC supply on the output bus. If the output bus is dead when the SFC is given a start command it will ramp up the voltage over one second, providing a soft energizing of the output.





SECTION 8

Pilot Devices

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Pilot Devices

8.1 Compact Range



| Non-illuminated pushbuttons |            |               |            |                 |
|-----------------------------|------------|---------------|------------|-----------------|
| Color                       | Contacts   | Bezel         | Type       | Order code      |
| Momentary fush pushbutton   |            |               |            |                 |
| Red                         | 1 NO       | Black plastic | CP1-10R-10 | 1SFA619100R1011 |
| Red                         | 1 NC       | Black plastic | CP1-10R-01 | 1SFA619100R1041 |
| Red                         | 1 NC       | Chrome metal  | CP1-30R-01 | 1SFA619100R3041 |
| Red                         | 1 NO +1 NC | Black plastic | CP1-10R-11 | 1SFA619100R1071 |
| Green                       | 1 NO       | Black plastic | CP1-10G-10 | 1SFA619100R1012 |
| Green                       | 1 NO       | Chrome metal  | CP1-30G-10 | 1SFA619100R3012 |
| Green                       | 2 NO       | Black plastic | CP1-10G-20 | 1SFA619100R1022 |
| Green                       | 1 NO +1 NC | Black plastic | CP1-10G-11 | 1SFA619100R1072 |
| Yeow                        | 1 NO       | Black plastic | CP1-10Y-10 | 1SFA619100R1013 |
| Yellow                      | 1 NO +1 NC | Black plastic | CP1-10Y-11 | 1SFA619100R1073 |
| Blue                        | 1 NO       | Black plastic | CP1-10L-10 | 1SFA619100R1014 |
| White                       | 1 NO       | Black plastic | CP1-10W-10 | 1SFA619100R1015 |
| Black                       | 1 NO       | Black plastic | CP1-10B-10 | 1SFA619100R1016 |
| Black                       | 2 NO       | Black plastic | CP1-10B-20 | 1SFA619100R1026 |
| Black                       | 1 NO +1 NC | Black plastic | CP1-10B-11 | 1SFA619100R1076 |

| Illuminated pushbuttons                                                            |          |               |            |                 |
|------------------------------------------------------------------------------------|----------|---------------|------------|-----------------|
| Color                                                                              | Contacts | Bezel         | Type       | Order code      |
| Flush momentary pushbuttonon                                                       |          |               |            |                 |
| Rated voltage 24 V AC/DC                                                           |          |               |            |                 |
| Red                                                                                | 1 NO     | Black plastic | CP1-11R-10 | 1SFA619100R1111 |
| Red                                                                                | 1 NC     | Black plastic | CP1-11R-01 | 1SFA619100R1141 |
| Green                                                                              | 1 NO     | Black plastic | CP1-11G-10 | 1SFA619100R1112 |
| Rated voltage 110-130 V AC/DC                                                      |          |               |            |                 |
| Red                                                                                | 1 NO     | Black plastic | CP1-12R-10 | 1SFA619100R1211 |
| Red                                                                                | 1 NC     | Black plastic | CP1-12R-01 | 1SFA619100R1241 |
| Green                                                                              | 1 NO     | Black plastic | CP1-12G-10 | 1SFA619100R1212 |
| Rated voltage 220 V AC/DC                                                          |          |               |            |                 |
| Red                                                                                | 1 NO     | Black plastic | CP1-13R-10 | 1SFA619100R1311 |
| Red                                                                                | 1 NC     | Black plastic | CP1-13R-01 | 1SFA619100R1341 |
| Green                                                                              | 1 NO     | Black plastic | CP1-13G-10 | 1SFA619100R1312 |
| For more pilot devices products, please contact your ABB local sales organization. |          |               |            |                 |

# Pilot Devices

## 8.1 Compact Range



| Heavy duty pushbuttons |           |       |            |                 |
|------------------------|-----------|-------|------------|-----------------|
| Color                  | Contacts  | Bezel | Type       | Order code      |
| Heavy duty pushbuttons |           |       |            |                 |
| Red                    | 1NO + 1NC |       | CP6-10R-11 | 1SFA619105R1071 |
| Green                  | 1NO + 1NC |       | CP6-10G-11 | 1SFA619105R1072 |
| Black                  | 1NO + 1NC |       | CP6-10B-11 | 1SFA619105R1076 |



| Non-illuminated emergency stop pushbuttons                                         |              |                 |
|------------------------------------------------------------------------------------|--------------|-----------------|
| Description                                                                        | Type         | Order code      |
| Twist release - Ø 30 mm                                                            |              |                 |
| 1 NC                                                                               | CE3T-10R-01  | 1SFA619500R1041 |
| 2 NC                                                                               | CE3T-10R-02  | 1SFA619500R1051 |
| 1 NO + 1 NC                                                                        | CE3T-10R-11  | 1SFA619500R1071 |
| Twist release - Ø 40 mm                                                            |              |                 |
| 1 NC                                                                               | CE4T-10R-01  | 1SFA619550R1041 |
| 2 NC                                                                               | CE4T-10R-02  | 1SFA619550R1051 |
| 1 NO + 1 NC                                                                        | CE4T-10R-11  | 1SFA619550R1071 |
| Pull release                                                                       |              |                 |
| 2 NC                                                                               | CE4P-10R-02  | 1SFA619551R1051 |
| 1 NO + 1 NC                                                                        | CE4P-10R-11  | 1SFA619551R1071 |
| Key release, ronis 455, key code 71                                                |              |                 |
| 2 NC                                                                               | CE4K1-10R-02 | 1SFA619552R1051 |
| 1 NO + 1 NC                                                                        | CE4K1-10R-11 | 1SFA619552R1071 |
| For more pilot devices products, please contact your ABB local sales organization. |              |                 |

Pilot Devices

8.1 Compact Range



CL2-502R



CL2-502G



CL2-502Y



CL2-502L



CL2-502C

| Pilot lights                                           |                  |          |                 |
|--------------------------------------------------------|------------------|----------|-----------------|
| Color                                                  | Rated current mA | Type     | Order code      |
| Rated voltage 24 V AC/DC                               |                  |          |                 |
| Red                                                    | 16               | CL2-502R | 1SFA619403R5021 |
| Green                                                  | 16               | CL2-502G | 1SFA619403R5022 |
| Yellow                                                 | 16               | CL2-502Y | 1SFA619403R5023 |
| Blue                                                   | 16               | CL2-502L | 1SFA619403R5024 |
| Clear                                                  | 16               | CL2-502C | 1SFA619403R5028 |
| Rated voltage 110-130 V AC                             |                  |          |                 |
| Red                                                    | 15-17            | CL2-513R | 1SFA619403R5131 |
| Green                                                  | 15-17            | CL2-513G | 1SFA619403R5132 |
| Yellow                                                 | 15-17            | CL2-513Y | 1SFA619403R5133 |
| Rated voltage 110-130 V DC                             |                  |          |                 |
| Red                                                    | 8-9              | CL2-515R | 1SFA619403R5151 |
| Green                                                  | 8-9              | CL2-515G | 1SFA619403R5152 |
| Yellow                                                 | 8-9              | CL2-515Y | 1SFA619403R5153 |
| Rated voltage 230 V AC                                 |                  |          |                 |
| Red                                                    | 17               | CL2-523R | 1SFA619403R5231 |
| Green                                                  | 17               | CL2-523G | 1SFA619403R5232 |
| Yellow                                                 | 17               | CL2-523Y | 1SFA619403R5233 |
| Blue                                                   | 17               | CL2-523L | 1SFA619403R5234 |
| Clear                                                  | 17               | CL2-523C | 1SFA619403R5238 |
| Rated voltage 380-415 V AC                             |                  |          |                 |
| Red                                                    | 15-17            | CL2-524R | 1SFA619403R5421 |
| Green                                                  | 15-17            | CL2-524G | 1SFA619403R5422 |
| Rated voltage 230 V AC with 60V anti-inductive voltage |                  |          |                 |
| Red                                                    | 17               | CL2-623R | 1SFA619403R6231 |
| Green                                                  | 17               | CL2-623G | 1SFA619403R6232 |
| Yellow                                                 | 17               | CL2-623Y | 1SFA619403R6233 |



CB1-610R



CB1-620B

| Buzzers Illuminated                  |               |                  |          |                 |
|--------------------------------------|---------------|------------------|----------|-----------------|
| Color                                | Rated voltage | Rated current mA | Type     | Order code      |
| Lights and sound output - Pulsation  |               |                  |          |                 |
| Red                                  | 24 V AC/DC    | 53               | CB1-610R | 1SFA619600R6101 |
| Red                                  | 110-130 V AC  | 70               | CB1-611R | 1SFA619600R6111 |
| Red                                  | 110-130 V DC  | 15               | CB1-612R | 1SFA619600R6121 |
| Red                                  | 230 V AC      | 70               | CB1-613R | 1SFA619600R6131 |
| Black                                | 24 V AC/DC    | 48               | CB1-630B | 1SFA619600R6306 |
| Black                                | 110-130 V AC  | 48               | CB1-631B | 1SFA619600R6316 |
| Black                                | 110-130 V DC  | 15               | CB1-632B | 1SFA619600R6326 |
| Black                                | 230 V AC      | 40               | CB1-633B | 1SFA619600R6336 |
| Lights and sound output - Continuous |               |                  |          |                 |
| Black                                | 24 V AC/DC    | 40               | CB1-620B | 1SFA619600R6206 |
| Black                                | 110-130 V AC  | 40               | CB1-621B | 1SFA619600R6216 |
| Black                                | 110-130 V DC  | 40               | CB1-622B | 1SFA619600R6226 |
| Black                                | 230 V AC      | 40               | CB1-623B | 1SFA619600R6236 |

For more pilot devices products, please contact your ABB local sales organization.

Pilot Devices

8.1 Compact Range



C2SS1-10B-10



C3SS1-30B-20



KA1-8010



Bezel



MA1-81...



KA1-8029  
KA1-8030



CEPY1-0

Non-illuminated selector switches

| Color                                                                                        | Contacts   | Bezel         | Type         | Order code      |
|----------------------------------------------------------------------------------------------|------------|---------------|--------------|-----------------|
| 2-position, short handle                                                                     |            |               |              |                 |
|  Maintained | 1 NO       | Black plastic | C2SS1-10B-10 | 1SFA619200R1016 |
|                                                                                              | 2 NO       | Black plastic | C2SS1-10B-20 | 1SFA619200R1026 |
|                                                                                              | 1 NO +1 NC | Black plastic | C2SS1-10B-11 | 1SFA619200R1076 |
|  Maintained | 1 NO       | Black plastic | C2SS2-10B-10 | 1SFA619201R1016 |
|                                                                                              | 2 NO       | Black plastic | C2SS2-10B-20 | 1SFA619201R1026 |
|                                                                                              | 1 NO +1 NC | Black plastic | C2SS2-10B-11 | 1SFA619201R1076 |

3-position, short handle

|                                                                                              |            |               |              |                 |
|----------------------------------------------------------------------------------------------|------------|---------------|--------------|-----------------|
|  Maintained | 2 NO       | Black plastic | C3SS1-10B-20 | 1SFA619210R1026 |
|                                                                                              | 2 NO       | Chrome metal  | C3SS1-30B-20 | 1SFA619210R3026 |
|                                                                                              | 1 NO +1 NC | Black plastic | C3SS1-10B-11 | 1SFA619210R1076 |
|  Momentary | 2 NO       | Black plastic | C3SS2-10B-20 | 1SFA619211R1026 |

Compact range - Accessories

| Description                                                                                                                                                                                 | Type     | Order code      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|
| Protective cover                                                                                                                                                                            |          |                 |
| Protective cover                                                                                                                                                                            | KA1-8010 | 1SFA616920R8010 |
| Note: For flush pushbutton to prevent accidental operation. Cannot be used together with Legend plate holder.                                                                               |          |                 |
| Bezel - for pushbuttons                                                                                                                                                                     |          |                 |
| Chrome metal                                                                                                                                                                                | KA1-8021 | 1SFA616920R8021 |
| Bezel - for selector switches                                                                                                                                                               |          |                 |
| Chrome metal                                                                                                                                                                                | KA1-8024 | 1SFA616920R8024 |
| Blanking plug                                                                                                                                                                               |          |                 |
| Black                                                                                                                                                                                       | MA1-8130 | 1SFA611920R8130 |
| Adaptors 30 mm                                                                                                                                                                              |          |                 |
| Black plastic                                                                                                                                                                               | KA1-8029 | 1SFA616920R8029 |
| Metal                                                                                                                                                                                       | KA1-8030 | 1SFA616920R8030 |
| "Note: For use when fitting the 22 mm pilot devices in 30 mm mounting holes (1.5 - 4 mm panels)<br>For use with pushbuttons, selector switches, emergency stop pushbutton and pilot lights" |          |                 |
| Legend plates and holders                                                                                                                                                                   |          |                 |
| Grey legend plate holder for plastic enclosures                                                                                                                                             | MA6-1060 | 1SFA611930R1060 |
| Black legend plate holder                                                                                                                                                                   | KA1-8120 | 1SFA616920R8120 |
| Legend plate without text or symbol                                                                                                                                                         | KA1-8121 | 1SFA616920R8121 |
| Legend plate for emergency stops for compact enclosures                                                                                                                                     | CA6-1026 | 1SFA619930R1026 |
| Enclosures                                                                                                                                                                                  |          |                 |
| Yellow compact enclosure for emergency stop pushbuttons                                                                                                                                     | CEPY1-0  | 1SFA619821R1000 |
| Yellow shroud                                                                                                                                                                               | CA1-8053 | 1SFA619920R8053 |
| Distance washer                                                                                                                                                                             |          | SK615516-1      |
| For more pilot devices products, please contact your ABB local sales organization.                                                                                                          |          |                 |



Pilot Devices

8.2 Modular Range



MP1-10R



MP1-20G



MP1-10Y



MP1-10L



MP1-10W



MP3-11R



MP1-11G



MP3-11L

Non-illuminated pushbuttons

| Color                      | Bezel          | Type    | Order code      |
|----------------------------|----------------|---------|-----------------|
| Momentary flush pushbutton |                |         |                 |
| Red                        | Black plastic  | MP1-10R | 1SFA611100R1001 |
| Red                        | Chrome plastic | MP1-20R | 1SFA611100R2001 |
| Red                        | Chrome metal   | MP1-30R | 1SFA611100R3001 |
| Green                      | Black plastic  | MP1-10G | 1SFA611100R1002 |
| Green                      | Chrome plastic | MP1-20G | 1SFA611100R2002 |
| Green                      | Chrome metal   | MP1-30G | 1SFA611100R3002 |
| Yellow                     | Black plastic  | MP1-10Y | 1SFA611100R1003 |
| Blue                       | Black plastic  | MP1-10L | 1SFA611100R1004 |
| White                      | Black plastic  | MP1-10W | 1SFA611100R1005 |
| Black                      | Black plastic  | MP1-10B | 1SFA611100R1006 |
| Black                      | Chrome plastic | MP1-20B | 1SFA611100R2006 |
| Black                      | Chrome metal   | MP1-30B | 1SFA611100R3006 |
| Clear                      | Black plastic  | MP1-10C | 1SFA611100R1008 |

Maintained flush pushbutton

|     |               |         |                 |
|-----|---------------|---------|-----------------|
| Red | Black plastic | MP2-10R | 1SFA611101R1001 |
|-----|---------------|---------|-----------------|

Momentary extended pushbutton

|       |               |         |                 |
|-------|---------------|---------|-----------------|
| Red   | Black plastic | MP3-10R | 1SFA611102R1001 |
| Green | Black plastic | MP3-10G | 1SFA611102R1002 |
| Black | Black plastic | MP3-10B | 1SFA611102R1006 |
| Clear | Black plastic | MP3-10C | 1SFA611102R1008 |

Illuminated pushbuttons

| Color                      | Bezel          | Type    | Order code      |
|----------------------------|----------------|---------|-----------------|
| Momentary flush pushbutton |                |         |                 |
| Red                        | Black plastic  | MP1-11R | 1SFA611100R1101 |
| Red                        | Chrome plastic | MP1-21R | 1SFA611100R2101 |
| Red                        | Chrome metal   | MP1-31R | 1SFA611100R3101 |
| Green                      | Black plastic  | MP1-11G | 1SFA611100R1102 |
| Green                      | Chrome plastic | MP1-21G | 1SFA611100R2102 |
| Green                      | Chrome metal   | MP1-31G | 1SFA611100R3102 |
| Yellow                     | Black plastic  | MP1-11Y | 1SFA611100R1103 |
| Blue                       | Black plastic  | MP1-11L | 1SFA611100R1104 |
| White                      | Black plastic  | MP1-11W | 1SFA611100R1105 |
| Clear                      | Black plastic  | MP1-11C | 1SFA611100R1108 |

Maintained flush pushbutton

|       |               |         |                 |
|-------|---------------|---------|-----------------|
| Red   | Black plastic | MP2-11R | 1SFA611101R1101 |
| Green | Black plastic | MP2-11G | 1SFA611101R1102 |

Momentary flush pushbutton

|       |               |         |                 |
|-------|---------------|---------|-----------------|
| Red   | Black plastic | MP3-11R | 1SFA611102R1101 |
| Green | Black plastic | MP3-11G | 1SFA611102R1102 |
| White | Black plastic | MP3-11W | 1SFA611102R1105 |

Pilot Devices

8.2 Modular Range



Non-illuminated double pushbuttons

| Upper button     | Lower button | Type     | Order code      |
|------------------|--------------|----------|-----------------|
| Flush pushbutton |              |          |                 |
| Green            | Red          |          |                 |
| No text          | No text      | MPD1-11B | 1SFA611130R1106 |
| I                | O            | MPD2-11B | 1SFA611131R1106 |

Extended lower pushbutton

|       |      |           |                 |
|-------|------|-----------|-----------------|
| Green | Red  |           |                 |
| I     | O    | MPD13-11B | 1SFA611142R1106 |
| START | STOP | MPD15-11B | 1SFA611144R1106 |

Illuminated double pushbuttons

| Upper button           | Lower button | Indicator light | Type     | Order code      |
|------------------------|--------------|-----------------|----------|-----------------|
| Flush lower pushbutton |              |                 |          |                 |
| Green                  | Red          |                 |          |                 |
| No text                | No text      | Red             | MPD1-11R | 1SFA611130R1101 |
| I                      | O            | Green           | MPD2-11G | 1SFA611131R1102 |
| I                      | O            | Yellow          | MPD2-11Y | 1SFA611131R1103 |
| No text                | No text      | Clear           | MPD1-11C | 1SFA611130R1108 |
| I                      | O            | Clear           | MPD2-11C | 1SFA611131R1108 |

Extended lower pushbutton

|       |      |       |           |                 |
|-------|------|-------|-----------|-----------------|
| Green | Red  |       |           |                 |
| I     | O    | Green | MPD13-11G | 1SFA611142R1102 |
| START | STOP | Clear | MPD15-11C | 1SFA611144R1108 |

Heavy duty pushbuttons for 30 mm mounting hole

| Color                 | Type    | Order code      |
|-----------------------|---------|-----------------|
| Heavy duty pushbutton |         |                 |
| Red                   | KP6-40R | 1SFA616105R4001 |
| Green                 | KP6-40G | 1SFA616105R4002 |
| Black                 | KP6-40B | 1SFA616105R4006 |

Non-illuminated emergency stop pushbuttons

| Description | Release method                | Type      | Order code      |
|-------------|-------------------------------|-----------|-----------------|
| Ø 30 mm     |                               |           |                 |
| Red         | Twist release                 | MPET3-10R | 1SFA611520R1001 |
| Ø 40 mm     |                               |           |                 |
| Red         | Twist release                 | MPET4-10R | 1SFA611523R1001 |
| Red         | Pull release                  | MPEP4-10R | 1SFA611524R1001 |
| Red         | Key release code 71/ronis 455 | MPEK4-11R | 1SFA611525R1101 |
| Ø 60 mm     |                               |           |                 |
| Red         | Twist release                 | MPMT4-10R | 1SFA611513R1001 |

Illuminated emergency stop pushbuttons

| Description | Release method | Type      | Order code      |
|-------------|----------------|-----------|-----------------|
| Ø 40 mm     |                |           |                 |
| Red         | Twist release  | MPMT3-11R | 1SFA611510R1101 |
| Ø 60 mm     |                |           |                 |
| Red         | Twist release  | MPMT4-11R | 1SFA611513R1101 |

Pilot Devices

8.2 Modular Range



ML1-100R



ML1-100G



M2SS1-10B



M2SS4-10B



M2SS1-11G

Pilot lights

| Description | Type     | Order code      |
|-------------|----------|-----------------|
| Red         | ML1-100R | 1SFA611400R1001 |
| Green       | ML1-100G | 1SFA611400R1002 |
| Yellow      | ML1-100Y | 1SFA611400R1003 |
| Blue        | ML1-100L | 1SFA611400R1004 |
| White       | ML1-100W | 1SFA611400R1005 |
| Clear       | ML1-100C | 1SFA611400R1008 |

Non-illuminated selector switches

| Description                                          | Color | Bezel          | Type      | Order code      |
|------------------------------------------------------|-------|----------------|-----------|-----------------|
| 2-position, short handle                             |       |                |           |                 |
| Maintained                                           | Black | Black plastic  | M2SS1-10B | 1SFA611200R1006 |
|                                                      | Black | Black plastic  | M2SS2-10B | 1SFA611201R1006 |
|                                                      | Black | Chrome plastic | M2SS2-20B | 1SFA611201R2006 |
|                                                      | Black | Chrome plastic | M2SS2-30B | 1SFA611201R3006 |
| 3-position, short handle                             |       |                |           |                 |
|                                                      | Black | Black plastic  | M3SS1-10B | 1SFA611210R1006 |
|                                                      | Black | Chrome plastic | M3SS1-20B | 1SFA611210R2006 |
|                                                      | Black | Chrome metal   | M3SS1-30B | 1SFA611210R3006 |
| Momentary, spring return from A to B and from C to B | Black | Black plastic  | M3SS2-10B | 1SFA611211R1006 |
| Momentary, spring return from C to B                 | Black | Black plastic  | M3SS2-10B | 1SFA611212R1006 |
| Momentary, spring return from A to B                 | Black | Black plastic  | M3SS7-10B | 1SFA611216R1006 |
| 4-position, short handle                             |       |                |           |                 |
| Maintained                                           | Black | Black plastic  | M4SS1-10B | 1SFA611290R4006 |
| 2-position, long handle                              |       |                |           |                 |
| Maintained                                           | Black | Black plastic  | M2SS4-10B | 1SFA611203R1006 |
| Maintained                                           | Black | Black plastic  | M2SS5-10B | 1SFA611204R1006 |
| 3-position, long handle                              |       |                |           |                 |
| Maintained                                           | Black | Black plastic  | M3SS4-10B | 1SFA611213R1006 |
| Illuminated selector switches                        |       |                |           |                 |
| 2-position, long handle                              |       |                |           |                 |
| Maintained                                           | Green | Black plastic  | M2SS1-11G | 1SFA611200R1102 |
| Maintained                                           | Green | Black plastic  | M2SS2-11G | 1SFA611201R1102 |
| 3-position, long handle                              |       |                |           |                 |
| Maintained                                           | Green | Black plastic  | M3SS1-11G | 1SFA611210R1102 |