

## IMPAC™ 100 Application Controller

### Motor Controllers

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### Pre-engineered control solutions save you money!

- Pre-configured to eliminate expensive custom control engineering.
- Pre-tested off the shelf components.
- Standardized control design, service, and control upgrades.
- Easily installable with simple, step-by-step instructions .
- Touch safe, 24 VDC control circuit.
- Controls up to 12 Amp motors.

### Complete Application Guide documents how to do:

- Conveyor Indexing
- Accumulation Stations
- Merging
- Emergency Stop Stations
- Jogging
- Push-buttons
- Plus many more....
- Application Guide document #851-124

## Fixed Speed AC Motor Controller

### 115 VAC 60 Hz, Single Phase

**Includes:**

- ◆ Power & motor cords.
- ◆ Mounting bracket & hardware, mounts to conveyor stand.



Part Number	Input Voltage	Input Phase	Hz	Output Amp Range*
711-1111	115 VAC	1	60	1.5 - 4.8
711-1112	115 VAC	1	60	3.7 - 12

### 230/460 VAC 60 Hz, 3 Phase

**Includes:**

- ◆ Power & motor cords.
- ◆ Mounting bracket & hardware, mounts to conveyor stand.



Part Number	Input Voltage	Input Phase	Hz	Output Amp Range*
711-1231	230 VAC	3	60	.9 - 2.9
711-1232	230 VAC	3	60	1.5 - 4.8
711-1431	460 VAC	3	60	.32 - 1.0
711-1432	460 VAC	3	60	.9 - 2.9

## Variable Frequency Drive Motor Controller

### 230 VAC, 60 Hz Single or 3 Phase

230 V 3 Phase output to motor.

**Includes:**

- ◆ Program keypad module.
- ◆ Speed pot.
- ◆ Motor reversing switch.
- ◆ Power & motor cords.
- ◆ Mounting bracket & hardware, mounts to conveyor or stands.



Part Number	Input Voltage	Input Phase	Hz	Output Amp Range*
711-3111	115 VAC	1	60	.5 - 2.3
711-3211	230 VAC	1	60	.9 - 3.6
711-3212	230 VAC	1	60	1.7 - 6.8
711-3231	230 VAC	3	60	.9 - 3.6
711-3232	230 VAC	3	60	1.7 - 6.8

## Variable Speed DC Motor Controller

### 115 VAC, Single Phase

130 VDC output to motor.

Can be adjusted to 90 VDC output to motor.

**Includes:**

- ◆ Speed pot.
- ◆ Motor reversing switch.
- ◆ Power & motor cords.
- ◆ Mounting bracket & hardware, mounts to conveyor or stands



Part Number	Input Voltage	Input Phase	Hz	Output Amp Range*
711- 2111	115VAC	1	60	1.7 - 2.5
711- 2112	115 VAC	1	60	3.0 - 5.0

## Impac Accessories

### Photo-Eye Kits

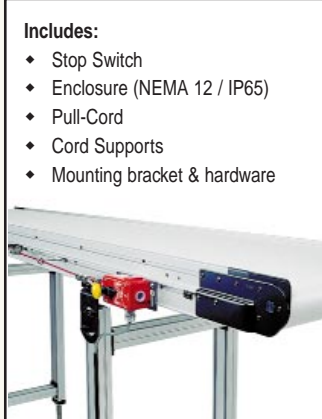


**Includes:**

- ◆ Photo-Eye & Reflector
- ◆ 30' (9M) Cable
- ◆ Mounting brackets & hardware

Part Number	Description
75-30	Standard Photo-Eye Kit, Fixed Mount
75-31	Standard Photo-Eye Kit, Adjustable Mount
75-32	Timing Photo-Eye Kit, Fixed Mount
75-33	Timing Photo-Eye Kit, Adjustable Mount

### Emergency Stop Kits, Pull-Cord



**Includes:**

- ◆ Stop Switch
- ◆ Enclosure (NEMA 12 / IP65)
- ◆ Pull-Cord
- ◆ Cord Supports
- ◆ Mounting bracket & hardware

Part Number	Description
75-42	Emergency Stop Kit, 30' (9M)
75-43	Emergency Stop Kit, 100' (30M)

### Jog Kit



**Includes:**

- ◆ Push Switch
  - ◆ Enclosure (NEMA 12 / IP65)
  - ◆ 30' (9M) cable
  - ◆ Mounting bracket & hardware
- Enclosure mounts vertically and horizontally.

Part Number	Description
75-10	Jog Kit

### Emergency Stop Kits



**Includes:**

- ◆ Push/Pull Stop Switch
  - ◆ Enclosure (NEMA 12 / IP65)
  - ◆ 30' (9M) cable
  - ◆ Mounting bracket & hardware
- Enclosure mounts vertically and horizontally.

Part Number	Description
75-40	Emergency Stop Kit, Illuminated
75-41	Emergency Stop Kit, Non-Illuminated

### Start / Stop Kit



**Includes:**

- ◆ Start / Stop Switch
  - ◆ Enclosure (NEMA 12 / IP65)
  - ◆ 30' (9M) Cable
  - ◆ Mounting bracket & hardware
- Enclosure mounts vertically and horizontally

Part Number	Description
75-70	Start / Stop Kit

### Wire Way Trough Kits



**Includes:**

- ◆ Additional conveyor wire way for four cables per trough.
- ◆ Mounting bracket & hardware. (Push button kits not included.)

Part Number	Description
75-85-6	6' (1830) Wire Way Trough Kit
75-85-12	12.5' (3810) Wire Way Trough Kit

### Foot Switch Kit



**Includes:**

- ◆ Foot Switch (NEMA 4 / IP66)
- ◆ 30' (9M) Cable
- ◆ Mounting hardware

Part Number	Description
75-20	Foot Switch Kit

### Linking Kit

Links IMPAC's or other process control machines for coordinated control. Includes 30 (9) linking cable and mounting hardware.

Part Number	Description
75-80	30' (9) Linking Cable Kit

## Example Applications

### Automatic End Stop with Manual Emergency Stop

Parts automatically advance to the end of conveyor and stop when the photo-eye is blocked. Pushing the emergency stop button also stops the conveyor. The maximum start/stop rate for this application is limited by the motor type. Higher start/stop rates are available using the electric clutch/brake kit (75-60).

- IMPAC™100**  
Part No. 711 - 2111  
Vari-Speed DC, 115 VAC Input, Single Phase, 1.7 - 2.5 FLA.
- Emergency Stop Kit, Non-Illuminated**  
Part No. 75 - 41
- Standard Photo-Eye Kit, Fixed Mount**  
Part No. 75 - 30

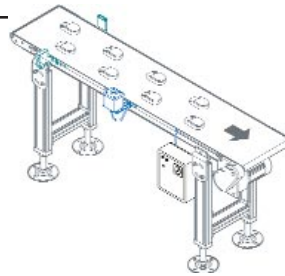


*The example uses one variable speed DC motor, single phase and one IMPAC™100. Any IMPAC™100 and matched motor can be substituted.*

### Automatic Indexing with Manual Override

Conveyor starts when parts block the photo-eye. The conveyor stops after parts have passed the photo-eye. Also, the operator can manually jog the conveyor using a jog kit or foot switch kit. The maximum start/stop rate for this application is limited by the motor type. A timing photo-eye can be used to adjust the part gap

- IMPAC™100**  
Part No. 711 - 2111  
Fixed Speed, 115 VAC, Single Phase, 1.7 - 2.5 FLA.
- Jog Kit**  
Part No. 75 - 10  
(or Foot Switch Kit Part No. 75-20)
- Standard Photo-Eye Kit, Fixed Mount**  
Part No. 75 - 30

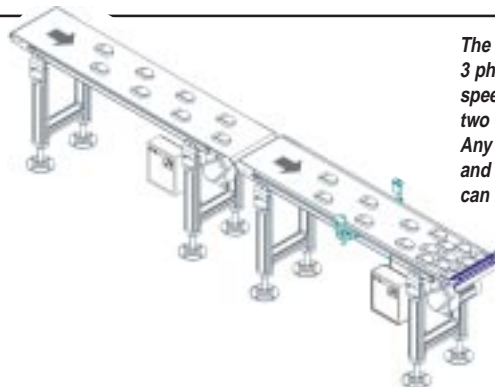


*The example uses one fixed speed AC motor, 115 VAC, single phase and one IMPAC™100. Any IMPAC™100 and matched motor can be substituted.*

### Multi-Conveyor Automatic Parts Accumulation

Two conveyors run until Conveyor No.1 reaches the full point. When Conveyor No.1 is full, Conveyor No.2 stops. The timing photo eye detects the full point when parts block the photo-eye's beam for longer than a pre-set time. Conveyor No. 2 automatically restarts when full point photo-eye clears.

- IMPAC™100**  
Part No. 711-3231  
VFD, 230 VAC, 3 Phase, .9 - 3.6 FLA.
- Timing Photo-eye Kit, Adjustable Mount**  
Part No. 75 - 33
- Controller to Controller Linking Cable Kit**  
Part No. 75-80
- Light Duty End Stop Kit**  
Part No. 215510M



*The example uses two 3 phase, variable speed AC motors and two IMPAC™100s. Any two IMPAC™100s and matched motor can be substituted.*

Order The IMPZC 100 Application Guide, 851-124 which documents over 60 pre-engineered application solutions.