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**Emergency Stops****Product Description**

Eaton's M22 emergency stops are a durable and reliable solution to a variety of e-stop applications. With standard push-pull, as well as twist-to-release and key-release, illuminated options and red or black operators, the M22 e-stop is a robust solution. As with all operators, they can be ordered as a ready to install complete device or as modular components for the perfect fit.

**Features**

- Push-pull and twist to release options available as well as illuminated and keyed release
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- More than 100,000 mechanical operations
- Capable of communicating via ASi protocol with ASi adapter modules
- Suitable for use in safety applications up to Category-4 or Sil-3

**Protection Type**

- Up to IP69K for increased protection. Check [ecat.eaton.com](http://ecat.eaton.com) for specifics
- NEMA 4X, 13

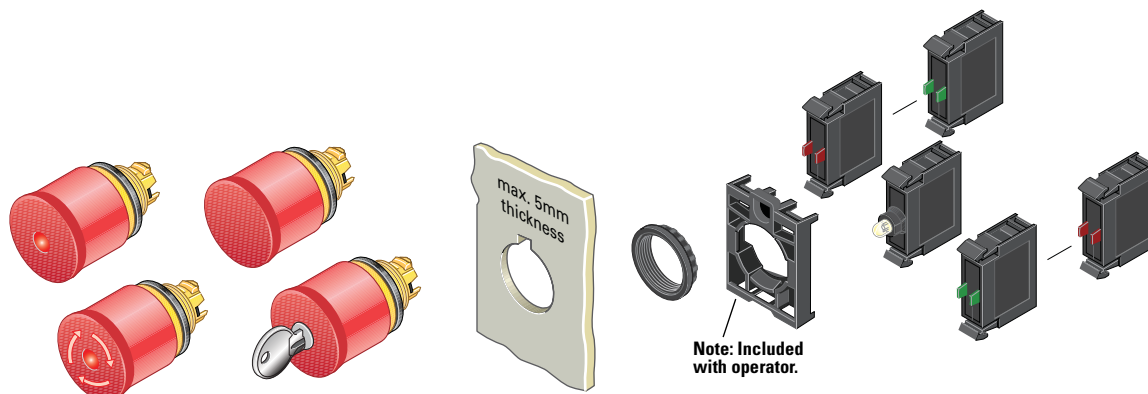
**Catalog Number Selection**

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

**Emergency Stops****M22 – PVT – MS2 – K10 – 230R**

Operator Color	Key Release Code	Contact Blocks	Light Units
M22 = Silver M22S = Black	Blank = MS1 MS2 = MS2 MS3 = MS3 MS4 = MS4 MS5 = MS5 MS6 = MS6 MS7 = MS7 MS8 = MS8 RS = Ronis (45 and 60 mm only)	K10 = NO K10P = NO, early-make K01 = NC K01D = NC, late-break CK10 = NO CK01 = NC CK01D = NC, late-break CK20 = 2NO CK02 = 2NC CK11 = NO-NC	12–30 Vac/Vdc W = White R = Red G = Green B = Blue 85–264 Vac 230W = White 230R = Red 230G = Green 230B = Blue
Operator Type			
PV = Non-illuminated push-pull emergency stop PV45P = Non-illuminated 45 mm emergency stop PV60P = Non-illuminated 60 mm emergency stop PV45P-MPI = Non-illuminated mechanical indication, 45 mm PV60P-MPI = Non-illuminated mechanical indication, 60 mm PVT = Non-illuminated twist-to-release emergency stop PVT45P = Non-illuminated twist-to-release 45 mm emergency stop PVT60P = Non-illuminated twist-to-release 60 mm emergency stop PVT45P-MPI = Non-illuminated twist-to-release with mechanical indication, 45 mm PVT60P-MPI = Non-illuminated twist-to-release with mechanical indication, 60 mm PVS = Non-illuminated keyed release (red operator only) PVS45P = Non-illuminated keyed release 45 mm (red only) PVS60P = Non-illuminated keyed release 60 mm (red only) PVL = Illuminated push-pull emergency stop PVL45P = Illuminated twist-to-release 45 mm emergency stop PVL60P = Illuminated twist-to-release 60 mm emergency stop			

## Non-Illuminated and Illuminated Emergency Stops



## Components

## M22-PVL



## Push-Pull Emergency Stops

Illumination/Indication	Actuator Size	Catalog Number
None	35 mm	<b>M22-PV</b>
	45 mm	<b>M22-PV45P</b>
	60 mm	<b>M22-PV60P</b>
LED illumination	35 mm	<b>M22-PVL</b>
	45 mm	<b>M22-PVL45P</b>
	60 mm	<b>M22-PVL60P</b>
Mechanical indication	45 mm	<b>M22-PV45P-MPI</b>
	60 mm	<b>M22-PV60P-MPI</b>

## M22-PVT45P-MPI



## Twist-to-Release Emergency Stops

Illumination/Indication	Actuator Size	Catalog Number
None	35 mm	<b>M22-PVT</b>
	45 mm	<b>M22-PVT45P</b>
	60 mm	<b>M22-PVT60P</b>
LED illumination	35 mm	<b>M22-PVLT</b>
	45 mm	<b>M22-PVLT45P</b>
	60 mm	<b>M22-PVLT60P</b>
Mechanical indication	45 mm	<b>M22-PVT45P-MPI</b>
	60 mm	<b>M22-PVT60P-MPI</b>

## M22S-PVLT



## Machine Stop Operators (Black) ①

Illumination	Type	Actuator Size	Catalog Number
Non-illuminated	Push-pull	35 mm	<b>M22S-PV</b>
	Twist-to-release	35 mm	<b>M22S-PVT</b>
LED illumination	Push-pull	35 mm	<b>M22S-PVL</b>
	Twist-to-release	35 mm	<b>M22S-PVLT</b>

## M22-PVS60P-MS1



## Key Release Emergency Stops ②

Actuator Size	Key Code	Catalog Number
35 mm	MS1	<b>M22-PVS</b> ③
	MS2	<b>M22-PVS-MS2</b>
	MS3	<b>M22-PVS-MS3</b>
	MS4	<b>M22-PVS-MS4</b>
	MS5	<b>M22-PVS-MS5</b>
	MS6	<b>M22-PVS-MS6</b>
	MS7	<b>M22-PVS-MS7</b>
	MS8	<b>M22-PVS-MS8</b>
45 mm	MS1	<b>M22-PVS45P</b>
	MS2	<b>M22-PVS45P-MS2</b>
	MS3	<b>M22-PVS45P-MS3</b>
	MS4	<b>M22-PVS45P-MS4</b>
	MS5	<b>M22-PVS45P-MS5</b>
	MS6	<b>M22-PVS45P-MS6</b>
	MS7	<b>M22-PVS45P-MS7</b>
	MS8	<b>M22-PVS45P-MS8</b>
60 mm	Ronis	<b>M22-PVS45P-RS</b>
	MS1	<b>M22-PVS60P</b>
	MS2	<b>M22-PVS60P-MS2</b>
	MS3	<b>M22-PVS60P-MS3</b>
	MS4	<b>M22-PVS60P-MS4</b>
	MS5	<b>M22-PVS60P-MS5</b>
	MS6	<b>M22-PVS60P-MS6</b>
	MS7	<b>M22-PVS60P-MS7</b>
60 mm	MS8	<b>M22-PVS60P-MS8</b>
	Ronis	<b>M22-PVS60P-RS</b>

## Notes

① Includes contact block mounting adapter.

② Key included. For identical locks and keys, use the same key code. One key is included with actuator; additional keys are available as accessories.

③ Includes Key Code MS1.

Maximum number of contacts: four M22-(C)K01,...10, or two M22-(C)K02,...20, ...11. Refer to IL or technical data sheet for more information.