

1

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

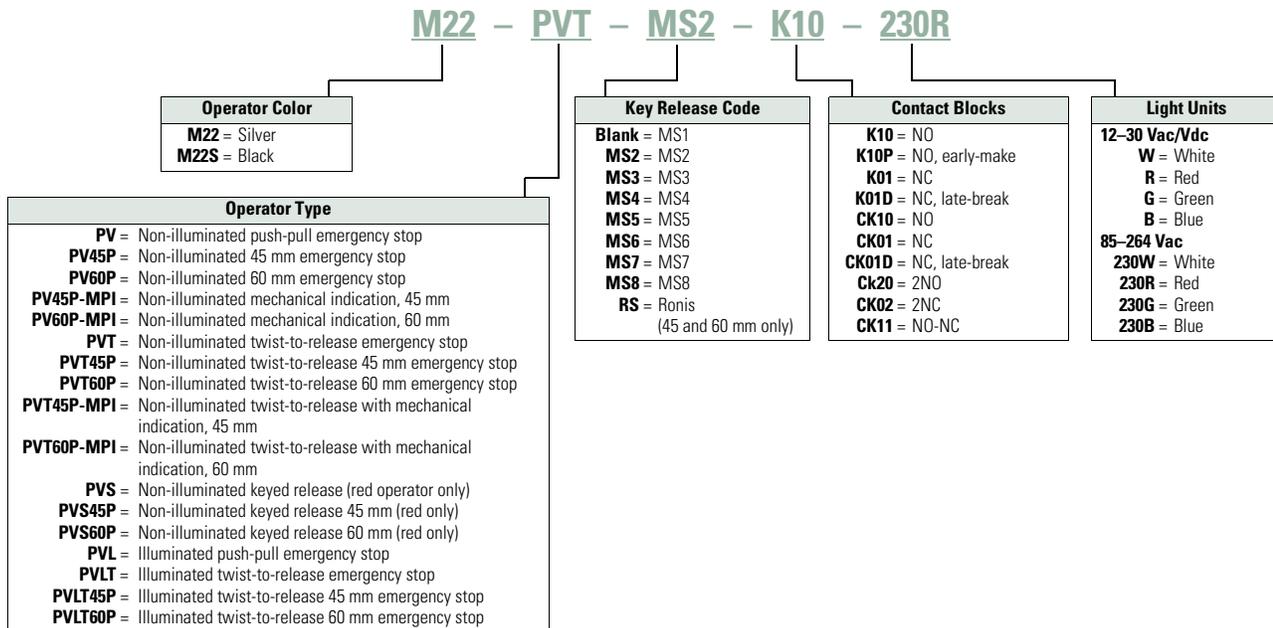
Protection Type

- IP67, IP69K (IP66 key-release)
- 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



Product Selection

Non-Illuminated and Illuminated Emergency Stops

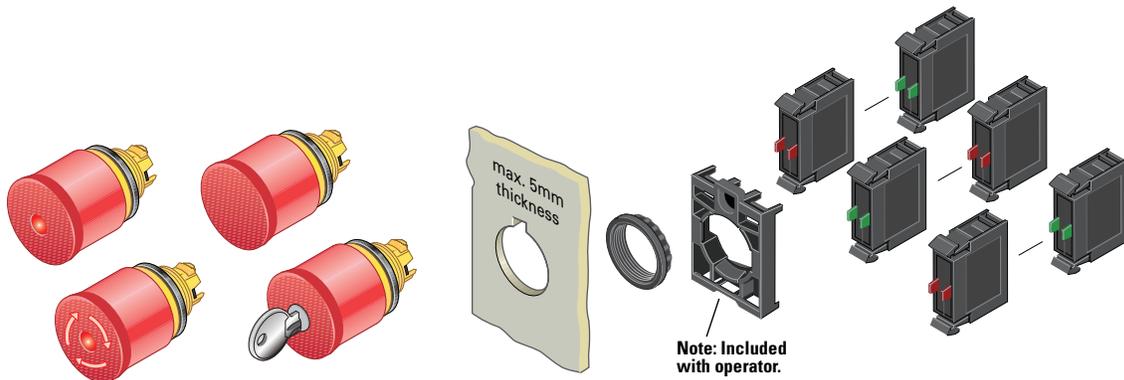
Complete Devices

Type	Button Color	LED Color	Contact Block Configuration ^①	Light Unit Voltage	Catalog Number		
M22-PV-K01							
	Non-Illuminated						
	Push-pull	Red	—	NC	—	M22-PV-K01	
				2NC		M22-PV-K02	
				1NO-2NC		M22-PV-K12	
	Twist-to-release	Red	—	NC	—	M22-PVT-K01	
				2NC		M22-PVT-K02	
				1NO-2NC		M22-PVT-K12	
	Key release	Red	—	NC	—	M22-PVS-K01	
				2NC		M22-PVS-K02	
1NO-2NC				M22-PVS-K12			
M22-PVL-K01-R							
	Illuminated						
	Push-pull	Red	Red	NC	12–30 Vac/Vdc	M22-PVL-K01-R	
				2NC		M22-PVL-K02-R	
				1NO-2NC		M22-PVL-K12-R	
				NC		85–264 Vac	M22-PVL-K01-230R
				2NC			M22-PVL-K02-230R
				1NO-2NC			M22-PVL-K12-230R
	Twist-to-release	Red	Red	NC	12–30 Vac/Vdc	M22-PVLT-K01-R	
				2NC		M22-PVLT-K02-R	
				1NO-2NC		M22-PVLT-K12-R	
				NC		85–264 Vac	M22-PVLT-K01-230R
				2NC			M22-PVLT-K02-230R
1NO-2NC				M22-PVLT-K12-230R			

Note

^① All NC contact blocks are positively driven contact. ⊖

Non-Illuminated and Illuminated Emergency Stops



Components

M22-PVL



Push-Pull Emergency Stops

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

M22-PVS60P-MS1



Key Release Emergency Stops ②

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

M22-PVT45P-MPI



Twist-to-Release Emergency Stops

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

M22S-PVLT



Machine Stop Operators (Black) ①

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

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.

M22-K10



Contact Blocks ①

Terminal Type	Mounting Location ②	Contact Configuration ③	Catalog Number
Screw	Front	NO	M22-K10
		NO, early-make	M22-K10P
		NC	M22-K01
		NC, late-break	M22-K01D
		SMCB, NC	M22-K01SMC10
		SMCB, 2NC	M22-K02SMC10
Base	SMCB, NC		M22-KC01SMC10
		SMCB, 2NC	M22-KC02SMC10
Spring-cage	Front	NO	M22-CK10
		NC	M22-CK01
		NC, late-break	M22-CK01D
		2NO	M22-CK20
		2NC	M22-CK02
		NO-NC	M22-CK11

M22-LED-W



Light Units ①

Terminal Type	LED Color	Light Unit Voltage	Catalog Number
Screw	White	12–30 Vac/Vdc	M22-LED-W
	Red	12–30 Vac/Vdc	M22-LED-R
Screw	White	85–264 Vac	M22-LED230-W
	Red	85–264 Vac	M22-LED230-R
Screw	White	207–264 Vac	M22-LED230H-W
	Red	207–264 Vac	M22-LED230H-R

M22-ES-MS1



Extra Keys ④

For Key Code	Catalog Number
MS1	M22-ES-MS1
MS2	M22-ES-MS2
MS3	M22-ES-MS3
MS4	M22-ES-MS4
MS5	M22-ES-MS5
MS6	M22-ES-MS6
MS7	M22-ES-MS7
MS8	M22-ES-MS8

Accessories

Description	Voltage	Catalog Number
M22-XGVP 	—	M22-XGVP
M22G-XGVP 	—	M22G-XGVP
M22-MGTA 	—	M22-MGTA
M22-PL-PV 	—	M22-PL-PV
M22-XPV60-Y-120 	24 Vac/Vdc 120 Vac 230 Vac	M22-XPV60-Y-24 M22-XPV60-Y-120 M22-XPV60-Y-230

Notes

- ① For complete listing of available contact blocks, see Accessories, Pages V7-T1-111 to V7-T1-116.
- ② Self-monitoring contact blocks (SMCB type) cannot be used with illuminated emergency stops.
- ③ All NC contact blocks are positively driven contact. ⊖
- ④ For use with key release operators only. One key included with operator.

1.5

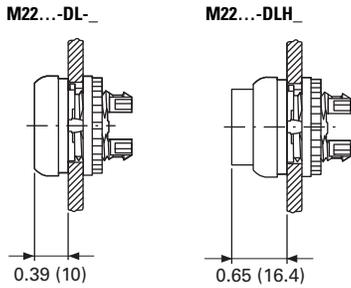
Pushbuttons and Indicating Lights

22.5 mm Modular Pushbuttons—M22

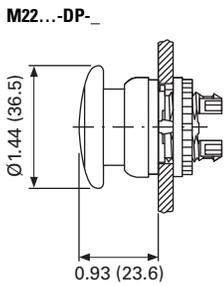
1

Approximate Dimensions in Inches (mm)

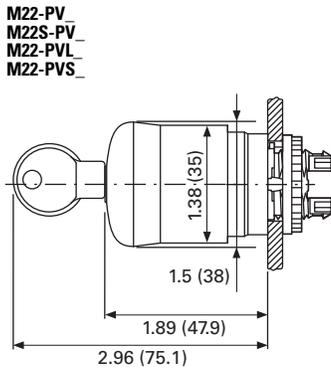
Illuminated Pushbuttons



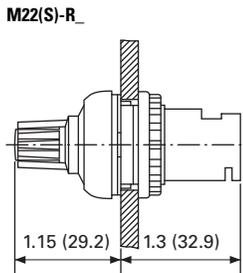
Mushroom Head Pushbutton



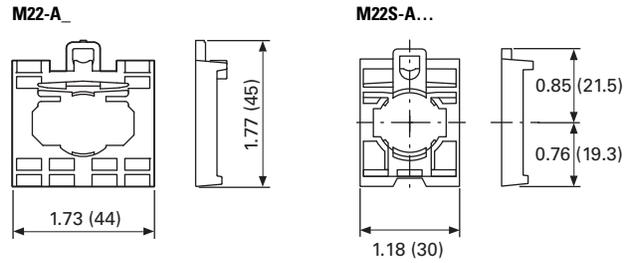
Emergency-Stop Operators



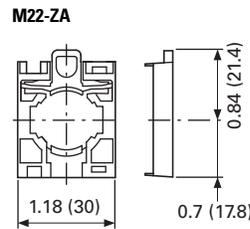
Potentiometer



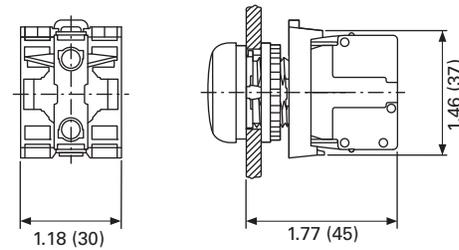
Contact Block Mounting Adapter



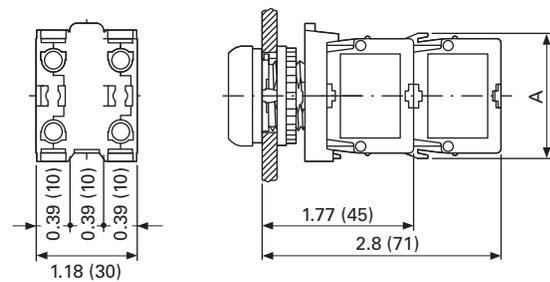
Front Mounted Centering Adapter



Front Mounted Indicating Light



Pushbutton, Complete Devices



	1 x M22-K_	2 x M22-K_	1 x M22-CK_	2 x M22-CK_
A	1.46 (37.2)	1.46 (37.2)	1.54 (39.0)	1.54 (39.0)