FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G Cl. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

Applications:

Five modular components – operators, contact blocks, covers, legend plates, and bodies – are combined to provide a variety of control stations which are:

- For use indoors or outdoors, in areas which are hazardous due to the presence of flammable gases and vapors, or combustible dust.
- Used in conjunction with magnetic starters or contactors for remote control of motors and other electrical apparatus.
- For installation in petroleum refineries, chemical, petrochemical, and other industrial process facilities; grain processing and storage facilities; and other heavy industrial applications where Class I, Class II, or Class III hazards are present.

Features:

- Momentary contact pushbuttons, maintained contact pushbuttons, and pilots lights offer a choice of functions.
- Selector switches in 2 or 3 position configurations including keyed and spring return options.
- Single-hole, two-hole, and three-hole covers for one, two, or three devices respectively per station.
- Rugged control devices for safe, reliable operation in industrial applications.
- Bodies, with extra room for wire pulling and termination, also include two integral mounting feet for fast, secure installation.
- Bodies have ½", ¾", or 1" dead-end or through-feed conduit hubs with integral bushing for protection of wire insulation.
- Covers and bodies are available in Feraloy® or copper-free aluminum for light weight and corrosion resistance.
- DL legend plates have large lettering to give clear indication of device function.
 Space is available for field markings.

Certifications and Compliances:

• NEC

Class I, Division 1 & 2, Groups B* (Div. 2), C, D

Class II, Division 1 & 2, Groups E, F, G Class III

- Zone 1 & 2 Group IIB*
- NEMA: 3R, 7B (Div. 2) CD, 9EFG, 12
- UL Standard: 1203



Standard Materials:

- Bodies, covers Feraloy® or copper-free aluminum.
- Pushbuttons and guards Type 6 / 6 nylon.
- Operating shafts, bearings stainless steel.

Standard Finishes:

- Feraloy® iron alloy electrogalvanized and aluminum acrylic paint.
- Copper-free aluminum natural.
- Stainless steel natural.

Options:

DescriptionCopper-free aluminum bodies and covers

Corro-free™ epoxy finish for use in severely corrosive environments.

S752

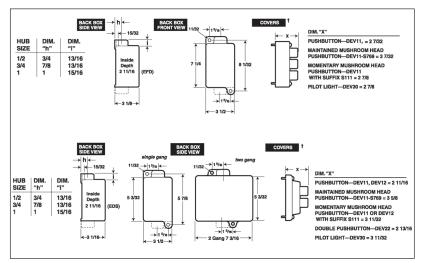
Suffix

SA

FlexStation covers and bodies. **Electrical Ratings:**

- Pushbuttons and selector switches 600 VAC heavy duty (NEMA A600).
- Pilot lights 120 VAC.

Dimensions In Inches:



†Covers have same length and width as back boxes.

*For Class I, Division 1, Group B or Zone 1 Hydrogen applications, use the EFS(C) complete control station catalog numbers see page 528.

T4

T5

EDS / EFS Series Control Stations

FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G CI. III Zone 1 & 2 Group IIB NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 1 – Select Operator Pushbutton - front operated, standard black button



Description	Cat. #_
Single button for 1 contact block	DEV11
Single button for 2 contact blocks	DEV12
Double buttons for 2 contact blocks	DEV22

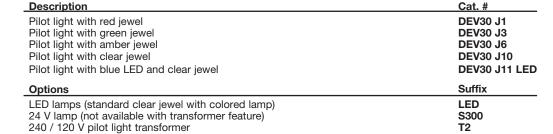


Options	<u>Sumix</u>
Specify color for each pushbutton button (ex: DEV11G, DEV22GR). Color is black if unspecifi	ed.
Green button - unmarked	G
Red button - unmarked	R
Momentary red mushroom head (breaks normally closed contacts only, not available with lockout or DEV22)	S111
Lockout with bar and chain (available on DEV11 and DEV12)	S153
Maintained red mushroom head (breaks normally closed and makes normally open contacts, push	
to stop, lockout standard, not available with DEV22)	S769



Pilot Light - factory sealed, incandescent lamp







Selector Switch - with standard lockout





Standard lockout	
Description	Cat. #
2-position (pos. 1 – N.O., pos. 2 – N.C.) for use with 1 or 2 contact blocks	DEV42
3-position (pos. 1 – N.O., pos. 2 – Open, pos. 3 – N.C.) for use with 1 or 2 contact blocks	DEV43
3-position (pos. 1 – N.C., pos. 2 – N.O., pos. 3 – N.O. for Switch A) (pos. 1 – N.O., pos. 2 – N.O., pos. 3 – N.C. for Switch B) for use with 2 contact blocks	DEV44
Options	Suffix
Spring return to center from right (For DEV43 or DEV44 only)	S634
Spring return to center from left (For DEV43 or DEV44 only)	S635
Spring return to center from right and left (For DEV43 or DEV44 only)	S842
Key Operated – removable from all positions	S847 K1*
Key Operated – removable from left position for DEV42 or from center for DEV43 and DEV44	S847 K2*
Key Operated – removable from right position for DEV42 or from left for DEV43 and DEV44	S847 K3*
Key Operated – removable from right position for DEV43 and DEV44	S847 K4*
*Additional key lock housings available; please contact Customer Service.	

STEP 2 – Select Contact Block (if required). For product details see page 571. **Contact Block**



Description	Cat. #
Contact block, 1 NO and 1 NC, 10A, 600VAC, A600 rating	ESWP126

For additional technical information see page 571.

480 / 120 V pilot light transformer

600 / 120 V pilot light transformer

Note - Each control station will accept a maximum of three contact blocks. Select device operators accordingly. DEV12, DEV22 and DEV44 may not be used on a three-operator (DS443-SA) cover. DEV42 and DEV43 may not be used on a three-operator cover when using them with two contact blocks.



4C EDS / EFS Series Control Stations

FlexStation™ Control Station Components

CI. I, Div. 1 & 2, Groups B (Div. 2 only) C, D CI. II, Div. 1 & 2, Groups E, F, G CI. III
Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 3 – Select Desired Legend Plates

For use with	h single hole covers	hole covers For use with 2 or 3 hole covers				
Cat. #	Inscription	Cat. #	Inscription	Cat. #	Inscription	
DL101	Blank	DL01	Blank w/no fields	DL32	Open-Close	_
DL128	Run-Jog	DL02	Blank w/single field	DL33	Up-Down	
DL129	Hand-Auto	DL03	Blank w/2 fields	DL35	In-Out	
DL130	Forward-Reverse	DL05	Start	DL36	Raise-Lower	
DL132	Open-Close	DL06	Stop	DL37	Start-Stop	
DL133	Up-Down	DL07	On	DL38	Run-Off-Jog	
DL135	In-Out	DL08	Off	DL39	Hand-Off-Auto	
DL136	Raise-Lower	DL09	Run	DL40	For-Off-Rev	
DL137	Start-Stop	DL10	Jog	DL41	Fast-Off-Slow	
DL138	Run-Off-Jog	DL11	Trip	DL42	1-Off-2	
DL139	Hand-Off-Auto	DL12	Reset	DL43	Open-Off-Close	
DL140	For-Off-Rev	DL13	Test	DL44	Up-Off-Down	
DL141	Fast-Off-Slow	DL14	Power On	DL46	Fast	
DL142	1-Off-2	DL15	Hand	DL47	Slow	
DL143	Open-Off-Close	DL16	Automatic	DL48	Off-On	
DL144	Up-Off-Down	DL17	Emer Stop	DL49	Auto-Off-Hand	
DL148	Off-On	DL18	Forward	DL65	Slow-Fast	
DL149	Auto-Off-Hand	DL19	Reverse	DL85	Safe	
DL165	Slow-Fast	DL20	Open	DL86	Safe-Run	
DL186	Safe-Run	DL21	Close	DL87	Raise-Off-Lower	
DL187	Raise-Off-Lower	DL22	Up	DL88	Slow-Off-Fast	
DL188	Slow-Off-Fast	DL23	Down	DL89	Odd-Off-Even	
DL189	Odd-Off-Even	DL24	In	DL90	Stop-Start	
DL190	Stop-Start	DL25	Out	DL91	On-Off	
DL191	On-Off	DL26	Raise	DL92	Fast-Slow	
DL192	Fast-Slow	DL27	Lower	DL93	Local-Remote	
DL193	Local-Remote	DL28	Run-Jog	DL94	Trip-Reset	
DL194	Trip-Reset	DL29	Hand-Auto	DL95	Auto-Manual	
DL195	Auto-Manual	DL30	Forward-Reverse	DL96	Start-Emer Stop	
DL196	Start-Emer Stop			DL97	Alarm-Silence	
DL197	Alarm-Silence			DL98	Maint-Manual	
DL198	Maint-Manual			DL99	Test-Reset	
DL199	Test-Reset					

Note: For special markings order DL101-"desired markings" or DL01-"desired markings"

STEP 4 – Select Cover Covers



Description	Cat. #
Blank cover with single hole (Single gang)	DS441
Blank cover with 2 holes (Single gang) Blank cover with 3 holes (To be used with EFD(C)1491-SA, 2491-SA or 3491-SA series of back boxes)	DS442 DS443 SA
Replacement cover plug for unused device operator openings	206765



Options:	Suffix
Aluminum body (mandatory suffix on DS443 must be included in catalog number)	SA
Exterior epoxy powder coat finish	S752
Interior & exterior epoxy powder coat finish. Not available on three operator cover (D	S443-SA) S753

EDS / EFS Series Control Stations

FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G Cl. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 5 – Select Back Box Back Boxes - for use with DS441 and DS442 covers or with 1 gang and 2 gang DS/DSD Series covers



Dead End	Through Feed	Hub Size	Back Box Arrangement
EDS171	EDSC171	1/2"	Single gang back box
EDS271	EDSC271	3/4"	Single gang back box
EDS371	EDSC371	1"	Single gang back box
EDS172	EDSC172	1/2"	Double gang back box
EDS272	EDSC272	3/4"	Double gang back box Double gang back box
EDS372	EDSC372	1"	Double gang back box



Options:	Suffix
Aluminum body	SA
Exterior epoxy powder coat finish Interior & exterior epoxy powder coat finish	S752
Interior & exterior epoxy powder coat finish	S753

Back Boxes - for use with DS443-SA cover or with 11/2 gang DS511 (3-operator) Series covers



Dead End	Through Feed	Hub Size	Back Box Arrangement
EFD1491 SA EFD2491 SA EFD3491 SA	EFDC1491 SA EFDC2491 SA EFDC3491 SA	1/2" 3/4" 1"	1½ gang back box 1½ gang back box 1½ gang back box
Options			Suffix
	powder coat finish or epoxy powder coat f	inish	S752 S753

FlexStation™ Control Station Components CI. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

Back Boxes - for use with DS441 and DS442 covers



Through Feed	Hub Size	Back Box Arrangement
EDSC378	1"	3 gang tandem
Common Cover A	Assemblies	
Cat. #	Description	
DS455 ①	With one pilot light	
DS476 ① ②	With one pilot light and transformer	
DS456 ① ①	With two pilot lights	
DS429§	With one pushbutton	
DS454§	With two pushbuttons	
DS510 ①§	With one pushbutton and one pilot light	

①Add color symbol for each pilot light from table below.

Color	Symbol	Color	Symbol	Color	Symbol	
Red	J1	Amber	J6	Blue	J11	
Green	J3	Clear	J10			

②Add suffix below for transformer primary voltage: **Transformers – Voltages above 125**

Nom. Volts 50–60Hz Transformer	Primary Voltage Range	Suffix
220 / 110	220-240	T2
440 / 110	440–480	T4
550 / 110	550–600	T5

	ates may be added to catalog number. Select		
START	OFF	RESET	LIGHT ON
STOP	RUN	TRIP	HAND
ON	JOG	TEST	AUTOMATIC
EMERGENCY	OPEN	DOWN	RAISE
FORWARD	CLOSE	IN	LOWER
REVERSE	UP	OUT	

FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G Cl. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

Applications:

Five modular components – operators, contact blocks, covers, legend plates, and bodies – are combined to provide a variety of control stations which are:

- For use indoors or outdoors, in areas which are hazardous due to the presence of flammable gases and vapors, or combustible dust.
- Used in conjunction with magnetic starters or contactors for remote control of motors and other electrical apparatus.
- For installation in petroleum refineries, chemical, petrochemical, and other industrial process facilities; grain processing and storage facilities; and other heavy industrial applications where Class I, Class II, or Class III hazards are present.

Features:

- Momentary contact pushbuttons, maintained contact pushbuttons, and pilots lights offer a choice of functions.
- Selector switches in 2 or 3 position configurations including keyed and spring return options.
- Single-hole, two-hole, and three-hole covers for one, two, or three devices respectively per station.
- Rugged control devices for safe, reliable operation in industrial applications.
- Bodies, with extra room for wire pulling and termination, also include two integral mounting feet for fast, secure installation.
- Bodies have ½", ¾", or 1" dead-end or through-feed conduit hubs with integral bushing for protection of wire insulation.
- Covers and bodies are available in Feraloy® or copper-free aluminum for light weight and corrosion resistance.
- DL legend plates have large lettering to give clear indication of device function.
 Space is available for field markings.

Certifications and Compliances:

• NEC

Class I, Division 1 & 2, Groups B* (Div. 2), C, D

Class II, Division 1 & 2, Groups E, F, G Class III

- Zone 1 & 2 Group IIB*
- NEMA: 3R, 7B (Div. 2) CD, 9EFG, 12
- UL Standard: 1203



Standard Materials:

- Bodies, covers Feraloy® or copper-free aluminum.
- Pushbuttons and guards Type 6 / 6 nylon.
- Operating shafts, bearings stainless steel.

Standard Finishes:

- Feraloy® iron alloy electrogalvanized and aluminum acrylic paint.
- Copper-free aluminum natural.
- Stainless steel natural.

Options:

DescriptionCopper-free aluminum bodies and covers

Corro-free™ epoxy finish for use in severely corrosive environments.

S752

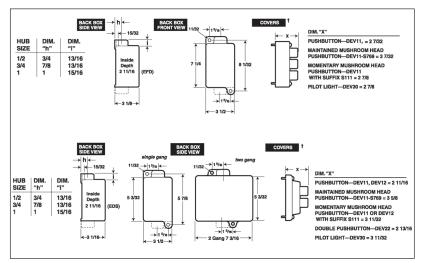
Suffix

SA

FlexStation covers and bodies. **Electrical Ratings:**

- Pushbuttons and selector switches 600 VAC heavy duty (NEMA A600).
- Pilot lights 120 VAC.

Dimensions In Inches:



†Covers have same length and width as back boxes.

*For Class I, Division 1, Group B or Zone 1 Hydrogen applications, use the EFS(C) complete control station catalog numbers see page 528.

T4

T5

EDS / EFS Series Control Stations

FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G CI. III Zone 1 & 2 Group IIB NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 1 – Select Operator Pushbutton - front operated, standard black button



Description	Cat. #_
Single button for 1 contact block	DEV11
Single button for 2 contact blocks	DEV12
Double buttons for 2 contact blocks	DEV22

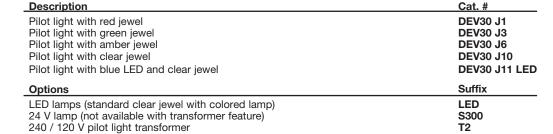


Options	<u>Sumix</u>
Specify color for each pushbutton button (ex: DEV11G, DEV22GR). Color is black if unspecifi	ed.
Green button - unmarked	G
Red button - unmarked	R
Momentary red mushroom head (breaks normally closed contacts only, not available with lockout or DEV22)	S111
Lockout with bar and chain (available on DEV11 and DEV12)	S153
Maintained red mushroom head (breaks normally closed and makes normally open contacts, push	
to stop, lockout standard, not available with DEV22)	S769



Pilot Light - factory sealed, incandescent lamp







Selector Switch - with standard lockout





Standard lockout	
Description	Cat. #
2-position (pos. 1 – N.O., pos. 2 – N.C.) for use with 1 or 2 contact blocks	DEV42
3-position (pos. 1 – N.O., pos. 2 – Open, pos. 3 – N.C.) for use with 1 or 2 contact blocks	DEV43
3-position (pos. 1 – N.C., pos. 2 – N.O., pos. 3 – N.O. for Switch A) (pos. 1 – N.O., pos. 2 – N.O., pos. 3 – N.C. for Switch B) for use with 2 contact blocks	DEV44
Options	Suffix
Spring return to center from right (For DEV43 or DEV44 only)	S634
Spring return to center from left (For DEV43 or DEV44 only)	S635
Spring return to center from right and left (For DEV43 or DEV44 only)	S842
Key Operated – removable from all positions	S847 K1*
Key Operated – removable from left position for DEV42 or from center for DEV43 and DEV44	S847 K2*
Key Operated – removable from right position for DEV42 or from left for DEV43 and DEV44	S847 K3*
Key Operated – removable from right position for DEV43 and DEV44	S847 K4*
*Additional key lock housings available; please contact Customer Service.	

STEP 2 – Select Contact Block (if required). For product details see page 571. **Contact Block**



Description	Cat. #
Contact block, 1 NO and 1 NC, 10A, 600VAC, A600 rating	ESWP126

For additional technical information see page 571.

480 / 120 V pilot light transformer

600 / 120 V pilot light transformer

Note - Each control station will accept a maximum of three contact blocks. Select device operators accordingly. DEV12, DEV22 and DEV44 may not be used on a three-operator (DS443-SA) cover. DEV42 and DEV43 may not be used on a three-operator cover when using them with two contact blocks.



4C EDS / EFS Series Control Stations

FlexStation™ Control Station Components

CI. I, Div. 1 & 2, Groups B (Div. 2 only) C, D CI. II, Div. 1 & 2, Groups E, F, G CI. III
Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 3 – Select Desired Legend Plates

For use with single hole covers For use with 2 or 3 hole covers						
Cat. #	Inscription	Cat. #	Inscription	Cat. #	Inscription	
DL101	Blank	DL01	Blank w/no fields	DL32	Open-Close	_
DL128	Run-Jog	DL02	Blank w/single field	DL33	Up-Down	
DL129	Hand-Auto	DL03	Blank w/2 fields	DL35	In-Out	
DL130	Forward-Reverse	DL05	Start	DL36	Raise-Lower	
DL132	Open-Close	DL06	Stop	DL37	Start-Stop	
DL133	Up-Down	DL07	On	DL38	Run-Off-Jog	
DL135	In-Out	DL08	Off	DL39	Hand-Off-Auto	
DL136	Raise-Lower	DL09	Run	DL40	For-Off-Rev	
DL137	Start-Stop	DL10	Jog	DL41	Fast-Off-Slow	
DL138	Run-Off-Jog	DL11	Trip	DL42	1-Off-2	
DL139	Hand-Off-Auto	DL12	Reset	DL43	Open-Off-Close	
DL140	For-Off-Rev	DL13	Test	DL44	Up-Off-Down	
DL141	Fast-Off-Slow	DL14	Power On	DL46	Fast	
DL142	1-Off-2	DL15	Hand	DL47	Slow	
DL143	Open-Off-Close	DL16	Automatic	DL48	Off-On	
DL144	Up-Off-Down	DL17	Emer Stop	DL49	Auto-Off-Hand	
DL148	Off-On	DL18	Forward	DL65	Slow-Fast	
DL149	Auto-Off-Hand	DL19	Reverse	DL85	Safe	
DL165	Slow-Fast	DL20	Open	DL86	Safe-Run	
DL186	Safe-Run	DL21	Close	DL87	Raise-Off-Lower	
DL187	Raise-Off-Lower	DL22	Up	DL88	Slow-Off-Fast	
DL188	Slow-Off-Fast	DL23	Down	DL89	Odd-Off-Even	
DL189	Odd-Off-Even	DL24	In	DL90	Stop-Start	
DL190	Stop-Start	DL25	Out	DL91	On-Off	
DL191	On-Off	DL26	Raise	DL92	Fast-Slow	
DL192	Fast-Slow	DL27	Lower	DL93	Local-Remote	
DL193	Local-Remote	DL28	Run-Jog	DL94	Trip-Reset	
DL194	Trip-Reset	DL29	Hand-Auto	DL95	Auto-Manual	
DL195	Auto-Manual	DL30	Forward-Reverse	DL96	Start-Emer Stop	
DL196	Start-Emer Stop			DL97	Alarm-Silence	
DL197	Alarm-Silence			DL98	Maint-Manual	
DL198	Maint-Manual			DL99	Test-Reset	
DL199	Test-Reset					

Note: For special markings order DL101-"desired markings" or DL01-"desired markings"

STEP 4 – Select Cover Covers



Description	Cat. #
Blank cover with single hole (Single gang)	DS441
Blank cover with 2 holes (Single gang) Blank cover with 3 holes (To be used with EFD(C)1491-SA, 2491-SA or 3491-SA series of back boxes)	DS442 DS443 SA
Replacement cover plug for unused device operator openings	206765



Options:	Suffix
Aluminum body (mandatory suffix on DS443 must be included in catalog number)	SA
Exterior epoxy powder coat finish	S752
Interior & exterior epoxy powder coat finish. Not available on three operator cover (D	S443-SA) S753

EDS / EFS Series Control Stations

FlexStation™ Control Station Components

Cl. I, Div. 1 & 2, Groups B (Div. 2 only) C, D Cl. II, Div. 1 & 2, Groups E, F, G Cl. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

STEP 5 – Select Back Box Back Boxes - for use with DS441 and DS442 covers or with 1 gang and 2 gang DS/DSD Series covers



Dead End	Through Feed	Hub Size	Back Box Arrangement
EDS171	EDSC171	1/2"	Single gang back box
EDS271	EDSC271	3/4"	Single gang back box
EDS371	EDSC371	1"	Single gang back box
EDS172	EDSC172	1/2"	Double gang back box
EDS272	EDSC272	3/4"	Double gang back box Double gang back box
EDS372	EDSC372	1"	Double gang back box



Options:	Suffix
Aluminum body	SA
Exterior epoxy powder coat finish Interior & exterior epoxy powder coat finish	S752
Interior & exterior epoxy powder coat finish	S753

Back Boxes - for use with DS443-SA cover or with 11/2 gang DS511 (3-operator) Series covers



Dead End	Through Feed	Hub Size	Back Box Arrangement
EFD1491 SA EFD2491 SA EFD3491 SA	EFDC1491 SA EFDC2491 SA EFDC3491 SA	1/2" 3/4" 1"	1½ gang back box 1½ gang back box 1½ gang back box
Options			Suffix
	powder coat finish or epoxy powder coat f	inish	S752 S753

FlexStation™ Control Station Components CI. III

Zone 1 & 2 Group IIB

NEMA 3R, 7B* (Div. 2) CD, 9 EFG, 12

Back Boxes - for use with DS441 and DS442 covers



Through Feed	Hub Size	Back Box Arrangement
EDSC378	1"	3 gang tandem
Common Cover A	Assemblies	
Cat. #	Description	
DS455 ①	With one pilot light	
DS476 ① ②	With one pilot light and transformer	
DS456 ① ①	With two pilot lights	
DS429§	With one pushbutton	
DS454§	With two pushbuttons	
DS510 ①§	With one pushbutton and one pilot light	

①Add color symbol for each pilot light from table below.

Color	Symbol	Color	Symbol	Color	Symbol	
Red	J1	Amber	J6	Blue	J11	
Green	J3	Clear	J10			

②Add suffix below for transformer primary voltage: **Transformers – Voltages above 125**

Nom. Volts 50–60Hz Transformer	Primary Voltage Range	Suffix
220 / 110	220-240	T2
440 / 110	440–480	T4
550 / 110	550–600	T5

	ates may be added to catalog number. Select		
START	OFF	RESET	LIGHT ON
STOP	RUN	TRIP	HAND
ON	JOG	TEST	AUTOMATIC
EMERGENCY	OPEN	DOWN	RAISE
FORWARD	CLOSE	IN	LOWER
REVERSE	UP	OUT	