



Economical Devices for High Performance Switching & Control Solutions

Series D7 Pilot Devices

**22mm Design
Saves Panel Space**

**Heavy Duty
Ratings**

**Modular Design
Reduces Inventory**

**Order Assembled
or by Component**

Features

TWO OPERATOR TYPES

- Plastic operator with captive front bezel
- Metal operator with die-cast zinc housing and captive shiny metal bezel

LESS INVENTORY, MORE CHOICES

- Wide range of style choices
- Modular design for mix and match flexibility
- Endless configurations from core components

QUICK, EASY INSTALLATION

- Tool-less mounting latch for quick assembly
- Anti-rotation tab for one person installation
- Snap-on back panel components

LONG ELECTRICAL & MECHANICAL LIFE

- 10 million mechanical operations
- 10 million electrical cycles

ENVIRONMENTAL RATINGS

- UL Type 4/4X/13, IP66 Sealing
- Chemical resistant industrial grade thermoplastic body
- Corrosion and UV resistant

Sprecher + Schuh's rugged D7 pilot devices offer maximum flexibility and a wide choice for all applications. This 22mm line is aesthetically appealing and modularly designed to make assembly and interchangeability easy. The D7 operators are available in two different body styles to meet every industrial application need. Both operators exhibit a new lower profile stylish appearance while maintaining the rugged performance necessary for demanding environments.



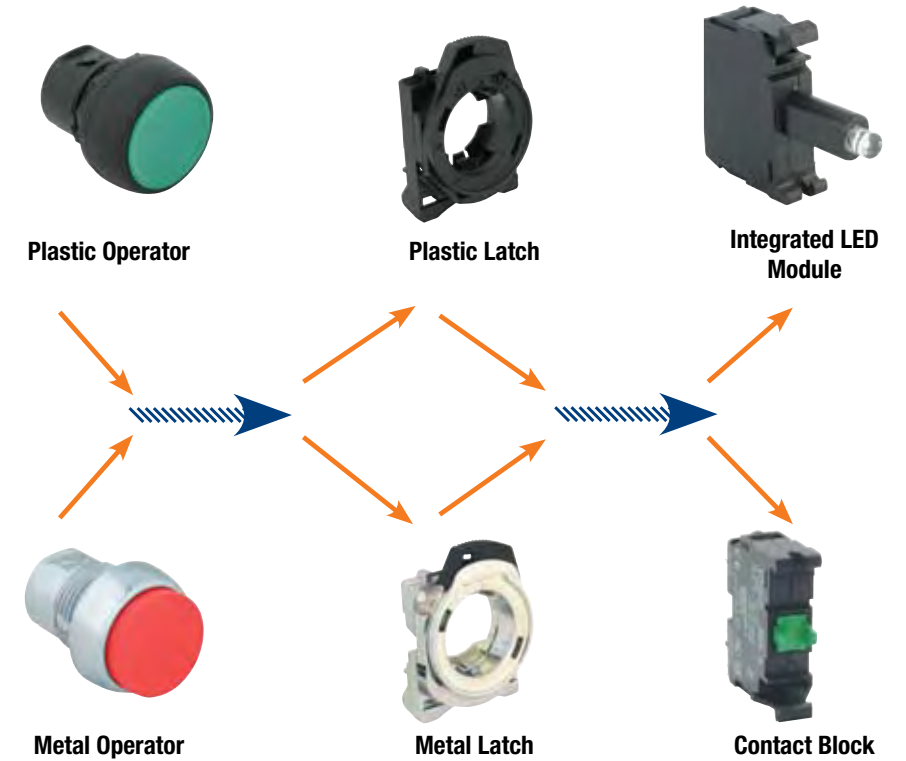
Fast Mounting

Tool-less, snap-in design for fast assembly



Flexibility

D7P

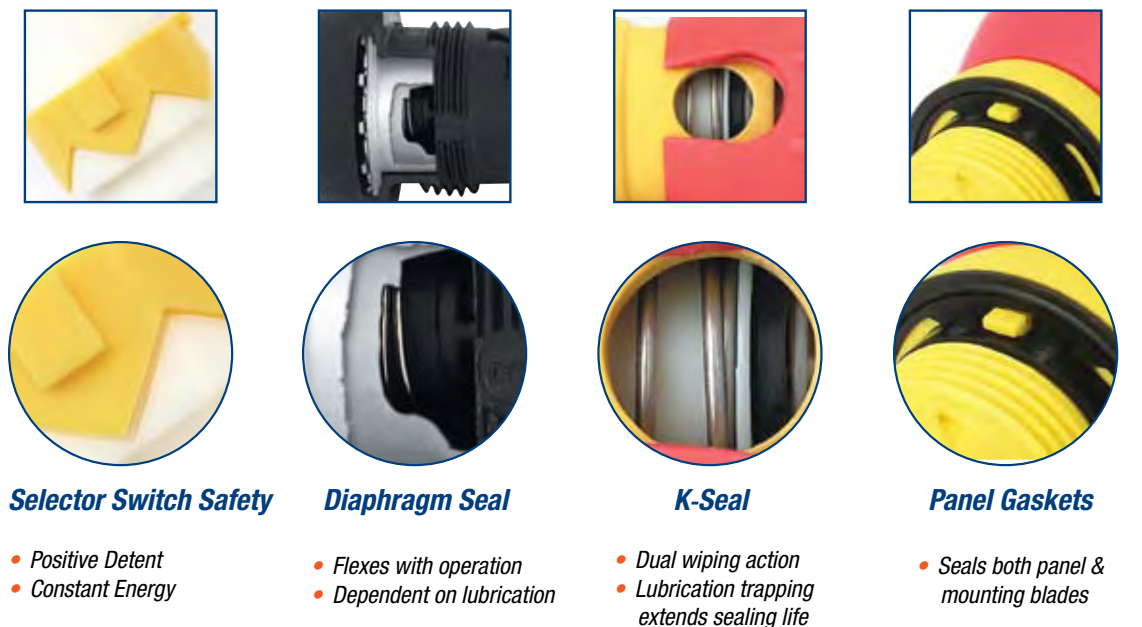


D7M

Complete Accessories



Superior Design



Push Buttons



Extended



Flush Guarded*

Illuminated

Momentary, Extended Plastic Metal

- D7P-LE0 D7M-LE0
- D7P-LE3 D7M-LE3
- D7P-LE4 D7M-LE4
- D7P-LE5 D7M-LE5
- D7P-LE6 D7M-LE6
- D7P-LE7 D7M-LE7
- D7P-LE9 D7M-LE9

Non-Illuminated

Momentary, Extended Plastic Metal

- D7P-E0 D7M-E0
- D7P-E1 D7M-E1
- D7P-E2 D7M-E2
- D7P-E3 D7M-E3
- D7P-E4 D7M-E4
- D7P-E5 D7M-E5
- D7P-E6 D7M-E6
- D7P-E9 D7M-E9



Extended



Flush

Illuminated 40mm Mushroom, Momentary

- | Plastic | Metal |
|------------|----------|
| • D7P-LMM3 | D7M-LMM3 |
| • D7P-LMM4 | D7M-LMM4 |
| • D7P-LMM5 | D7M-LMM5 |
| • D7P-LMM6 | D7M-LMM6 |
| ○ D7P-LMM7 | D7M-LMM7 |



Also available in 60mm Mushroom

Non-Illuminated 40mm Mushroom, Momentary

- | Plastic | Metal |
|------------|----------|
| • D7P-MM42 | D7M-MM42 |
| • D7P-MM43 | D7M-MM43 |
| • D7P-MM44 | D7M-MM44 |
| • D7P-MM45 | D7M-MM45 |
| • D7P-MM46 | D7M-MM46 |

Momentary, Flush* Plastic Metal

- D7P-LF0 D7M-LF0
- D7P-LF3 D7M-LF3
- D7P-LF4 D7M-LF4
- D7P-LF5 D7M-LF5
- D7P-LF6 D7M-LF6
- D7P-LF7 D7M-LF7
- D7P-LF9 D7M-LF9

Maintained, Flush Plastic Metal

- D7P-LFA0 D7M-LFA0
- D7P-LFA3 D7M-LFA3
- D7P-LFA4 D7M-LFA4
- D7P-LFA5 D7M-LFA5
- D7P-LFA6 D7M-LFA6
- D7P-LFA7 D7M-LFA7
- D7P-LFA9 D7M-LFA9

* Guarded available on Momentary Flush only

Emergency Stops



Illuminated Twist-to-release, 40mm Mushroom

Plastic D7P-LMT44

Metal D7M-LMT44

Complete Unit

- | | |
|----------------------------|----------------|
| 1NC: D7P-LMT44PX01 | D7M-LMT44PX01 |
| 1 Guardian: D7P-LMT44PX01S | D7M-LMT44PX01S |



Non-Illuminated Twist-to-release, 30mm Mushroom

Plastic D7P-MT34

Metal D7M-MT34

Complete Unit

- | | |
|---------------------------|---------------|
| 1NC: D7P-MT34PX01 | D7M-MT34PX01 |
| 1 Guardian: D7P-MT34PX01S | D7M-MT34PX01S |



Keyed Twist-to-release, 40mm Mushroom

Plastic D7P-MK44

Metal D7M-MK44

Complete Unit

- | | |
|---------------------------|---------------|
| 1NC: D7P-MK44PX01 | D7M-MK44PX01 |
| 1 Guardian: D7P-MK44PX01S | D7M-MK44PX01S |



Twist-to-release, 40mm Mushroom Plastic Metal

Complete Unit

- | | |
|---------------------------|---------------|
| 1NC: D7P-MT44PX01 | D7M-MT44PX01 |
| 1 Guardian: D7P-MT44PX01S | D7M-MT44PX01S |



Twist-to-release, 60mm Mushroom Plastic Metal

Complete Unit

- | | |
|---------------------------|---------------|
| 1NC: D7P-MT64PX01 | D7M-MT64PX01 |
| 1 Guardian: D7P-MT64PX01S | D7M-MT64PX01S |

PUSH buttons

MONOLITHIC

emergency STOP

SELECTOR switches

MULTIfunction push buttons

COMPONENTS

PILOT lights

PUSH-PULL operators

RESET operators

OTHER switches

Push-Pull Operators



2 Position Illuminated

Push-Pull, 40mm Mushroom

- | Plastic | Metal |
|-------------|-----------|
| • D7P-LMP43 | D7M-LMP43 |
| • D7P-LMP44 | D7M-LMP44 |
| • D7P-LMP45 | D7M-LMP45 |

Complete Unit

- | | |
|----------------------------|----------------|
| 1NC: D7P-LMP44PX01 | D7M-LMP44PX01 |
| 1 Guardian: D7P-LMP44PX01S | D7M-LMP44PX01S |



2 Position Non-Illuminated

Push-Pull, 40mm Mushroom

- | Plastic | Metal |
|------------|----------|
| • D7P-MP42 | D7M-MP42 |
| • D7P-MP44 | D7M-MP44 |

Complete Unit

- | | |
|---------------------------|---------------|
| 1NC: D7P-MP44PX01 | D7M-MP44PX01 |
| 1 Guardian: D7P-MP44PX01S | D7M-MP44PX01S |



3 Position Illuminated

Push-Pull, 40mm Mushroom

- | Momentary | Maintained |
|----------------|--------------|
| • D7M-LMM40-E3 | D7M-LMP40-E3 |
| • D7M-LMM43-E3 | D7M-LMP43-E3 |
| • D7M-LMM44-E3 | D7M-LMP44-E3 |
| • D7M-LMM46-E3 | D7M-LMP46-E3 |
| • D7M-LMM47-E3 | D7M-LMP47-E3 |



3 Position Non-Illuminated

Push-Pull, 40mm Mushroom

- | Momentary | Maintained |
|---------------|-------------|
| • D7M-MM42-E3 | D7M-MP42-E3 |
| • D7M-MM43-E3 | D7M-MP43-E3 |
| • D7M-MM44-E3 | D7M-MP44-E3 |

Pilot Lights



Plastic

- D7P-P0
- D7P-P3
- D7P-P4
- D7P-P5
- D7P-P6
- D7P-P7
- D7P-P9

Metal

- D7M-P0
- D7M-P3
- D7M-P4
- D7M-P5
- D7M-P6
- D7M-P7
- D7M-P9

○ Pilot light without lens or diffuser

Reset Operators



Mechanical and/or Electrical Reset

Plastic

- D7P-R1
- D7P-R2
- D7P-R6

Metal

- D7M-R1
- D7M-R2
- D7M-R6

Monolithic



Indicator Light
Plastic

- | | |
|------------|---------------------|
| LED | Incandescent |
| • D7D-P0N♣ | D7D-P0D♣ |
| • D7D-P3N♣ | D7D-P3D♣ |
| • D7D-P4N♣ | D7D-P4D♣ |
| • D7D-P5N♣ | D7D-P5D♣ |
| • D7D-P6N♣ | D7D-P6D♣ |
| ○ D7D-P7N♣ | D7D-P7D♣ |
- ♣ Select lamp voltage and terminal type



Push Button
Non-Illuminated, Plastic, Momentary

- | | |
|------------------|---------------------|
| Flush Cap | Extended Cap |
| ○ D7D-F1♣ | D7D-E1♣ |
| • D7D-F2♣ | D7D-E2♣ |
| • D7D-F3♣ | D7D-E3♣ |
| • D7D-F4♣ | D7D-E4♣ |
| • D7D-F5♣ | D7D-E5♣ |
| • D7D-F6♣ | D7D-E6♣ |
- ♣ Select cap text and contact configuration



E-STOP Push Button
Push-Pull and Twist-to-release,
40mm Mushroom, Plastic

- | | |
|-------------|---------|
| D7D-MT44X01 | 1NC |
| D7D-MT44X11 | 1NO 1NC |
| D7D-MT44X02 | 2NC |



Selector Switch
Non-Illuminated, Plastic

- | | |
|-------------------------------|----------|
| 2 Position, Maintained | |
| • D7D-SM22X10 | 1NO |
| • D7D-SM22X01 | 1NC |
| • D7D-SM22X20 | 2NO |
| • D7D-SM22X02 | 2NC |
| • D7D-SM22X11 | 1NO, 1NC |
| 3 Position, Maintained | |
| • D7D-SM32X20 | 2NO |
| • D7D-SM32X02 | 2NC |
| • D7D-SM32X11 | 1NO, 1NC |

Also available with
spring return

Selector Switches



Non-Illuminated

- | | |
|-------------------------------|--------------|
| 2 Position, Maintained | |
| Plastic | Metal |
| • D7P-SM22 | D7M-SM22 |
| 3 Position, Maintained | |
| Plastic | Metal |
| • D7P-SM32 | D7M-SM32 |

Also available with
spring return



Illuminated

- | | |
|-------------------------------|--------------|
| 2 Position, Maintained | |
| Plastic | Metal |
| • D7P-LSM20 | D7M-LSM20 |
| • D7P-LSM23 | D7M-LSM23 |
| • D7P-LSM24 | D7M-LSM24 |
| • D7P-LSM25 | D7M-LSM25 |
| • D7P-LSM26 | D7M-LSM26 |
| ○ D7P-LSM27 | D7M-LSM27 |
| 3 Position, Maintained | |
| Plastic | Metal |
| • D7P-LSM30 | D7M-LSM30 |
| • D7P-LSM33 | D7M-LSM33 |
| • D7P-LSM34 | D7M-LSM34 |
| • D7P-LSM35 | D7M-LSM35 |
| • D7P-LSM36 | D7M-LSM36 |
| ○ D7P-LSM37 | D7M-LSM37 |



Multi-function



Illuminated

- | | |
|-------------------|--------------|
| 2 Function | |
| Plastic | Metal |
| D7P-LU2X | D7M-LU2X |



Non-Illuminated

- | | |
|-------------------|--------------|
| 2 Function | |
| Plastic | Metal |
| D7P-U2X | D7M-U2X |



- | | |
|--------------------|--------------|
| 3 Functions | |
| Plastic | Metal |
| D7P-U3X | D7M-U3X |

Other Switches



Toggle Switch
Metal

- | | |
|-------------------|------------|
| 2 Position | |
| D7M-JR2 | Momentary |
| D7M-JM2 | Maintained |
| 4 Position | |
| D7M-JR4 | Momentary |
| D7M-JM4 | Maintained |



Key Selector Switches

- | | |
|-------------------------------|--------------|
| 2 Position, Maintained | |
| Plastic | Metal |
| D7P-KM21 | D7M-KM21 |
| D7P-KM22 | D7M-KM22 |
| D7P-KM23 | D7M-KM23 |
| 3 Position, Maintained | |
| Plastic | Metal |
| D7P-KM31 | D7M-KM31 |
| D7P-KM33 | D7M-KM33 |
| D7P-KM34 | D7M-KM34 |
| D7P-KM35 | D7M-KM35 |

Also available with
spring return



Potentiometer
Single Turn, Assembled

- | | |
|----------------|--------------------------|
| Plastic | Resistive Element |
| D7P-POT | None (Operator Only) |
| D7P-POT1 | 150 Ω |
| D7P-POT2 | 500 Ω |
| D7P-POT3 | 1000 Ω |
| D7P-POT4 | 2500 Ω |
| D7P-POT5 | 5000 Ω |
| D7P-POT6 | 10000 Ω |



Selector/Jog Operators

- | | |
|-------------------|--------------|
| 2 Position | |
| Plastic | Metal |
| • D7P-SJ22 | D7M-SJ22 |
| • D7P-SJ23 | D7M-SJ23 |
| 3 Position | |
| Plastic | Metal |
| • D7P-SJ32 | D7M-SJ32 |
| • D7P-SJ33 | D7M-SJ33 |

Components



Contact Blocks
(latch not included)

- | | |
|--------------|-----------------|
| D7-X10 | 1NO |
| D7-X01 | 1NC |
| D7-X01B | 1NC Early Break |
| D7-X10E | 1NO Early Make |
| D7-X01L | 1NC Late Break |
| D7-X10V(1mA) | 1NO Low Voltage |
| D7-X01V(1mA) | 1NC Low Voltage |
| D7-X01S | Guardian Block |
| D7-Q10 | 1NO Screwless |
| D7-Q01 | 1NC Screwless |



Integrated LED Module
(latch not included)

- | | |
|-------------------|-----------|
| Screw Type | |
| D7-N3* | 24V AC/DC |
| D7-N5* | 120V AC |
| D7-N7* | 240V AC |

- | | |
|---------------------|-----------|
| Spring-Clamp | |
| D7-Q3* | 24V AC/DC |
| D7-Q5* | 120V AC |
| D7-Q7* | 240V AC |

* Add LED Color, R=red, G=green, Y=yellow, B=blue, W=white



Plastic Latch
D7-ALP



Metal Latch
D7-ALM

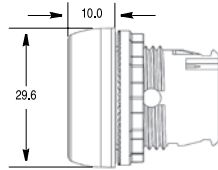


Incandescent Power Module
(bulb not included)

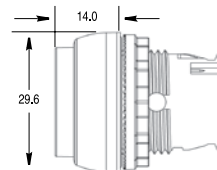
- | | |
|--------|--------------|
| D7-D0C | 6-240V AC/DC |
|--------|--------------|

Dimensions* (Approximately in millimeters)

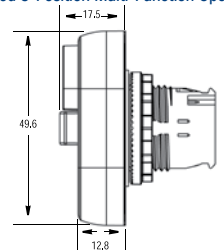
Non-Illuminated and Illuminated
Flush Push Button Operators (D7x-F)



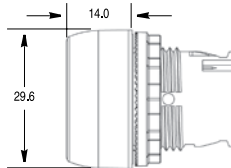
Illuminated and Non-Illuminated
Extended Push Button Operators



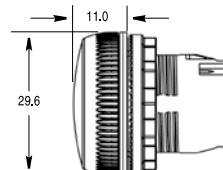
Non-Illuminated 3-Position Multi-Function Operators (D7x-U3)



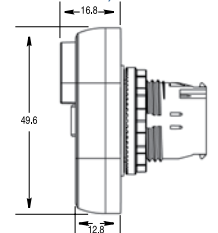
Non-Illuminated Guarded and Non-Illuminated
Maintained Push Button Operators (D7x-G and D7x-FA)



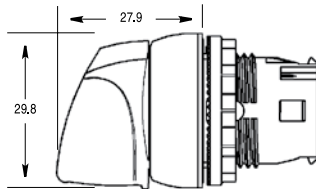
Pilot Light Operators (D7x-P)



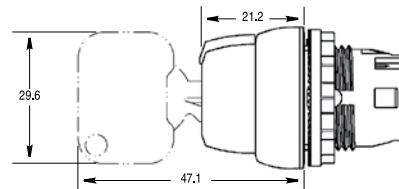
Illuminated and Non-Illuminated 2-Position Multi-Function
Operators (D7x-LU2 & D7x-U2)



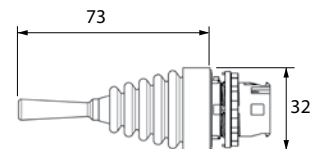
Illuminated and Non-Illuminated Knob Selector Switch
Operators (D7x-LS & D7x-S)



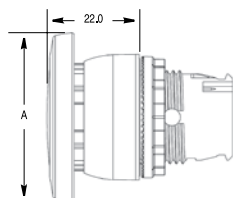
Key Selector Switch Operators (D7x-K)



Toggle Switch Operators (D7M-JM)

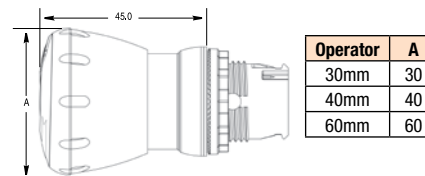


Illuminated and Non-Illuminated
Momentary Mushroom Operators
40mm and 60mm (D7x-LMM & D7x-MM)



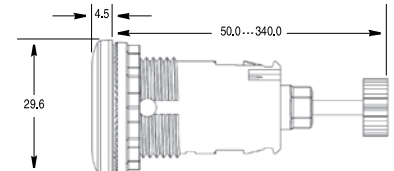
Operator	A
40mm	39.8
60mm	59.8

Illuminated and Non-Illuminated Twist-to-Release
Operators 30mm, 40mm, and 60mm (D7x-MT)

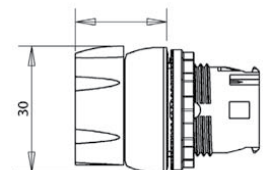


Operator	A
30mm	30
40mm	40
60mm	60

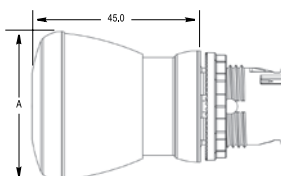
Reset Operators (D7x-R)



Selector Jog Operators (D7x-SJ)

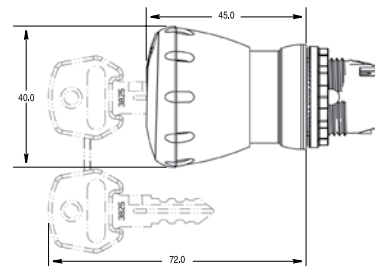


Illuminated and Non-Illuminated
Push-Pull Mushroom Operators 30mm, 40mm, and 60mm
(D7x-MP)



Operator	A
30mm	30
40mm	40
60mm	60

Mushroom Key Release Operator 40mm (D7x-MK)



Potentiometer with Resistive Element (D7P- POT)



* For Monolithic Devices see the D7D Monolithic Flyer