



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.

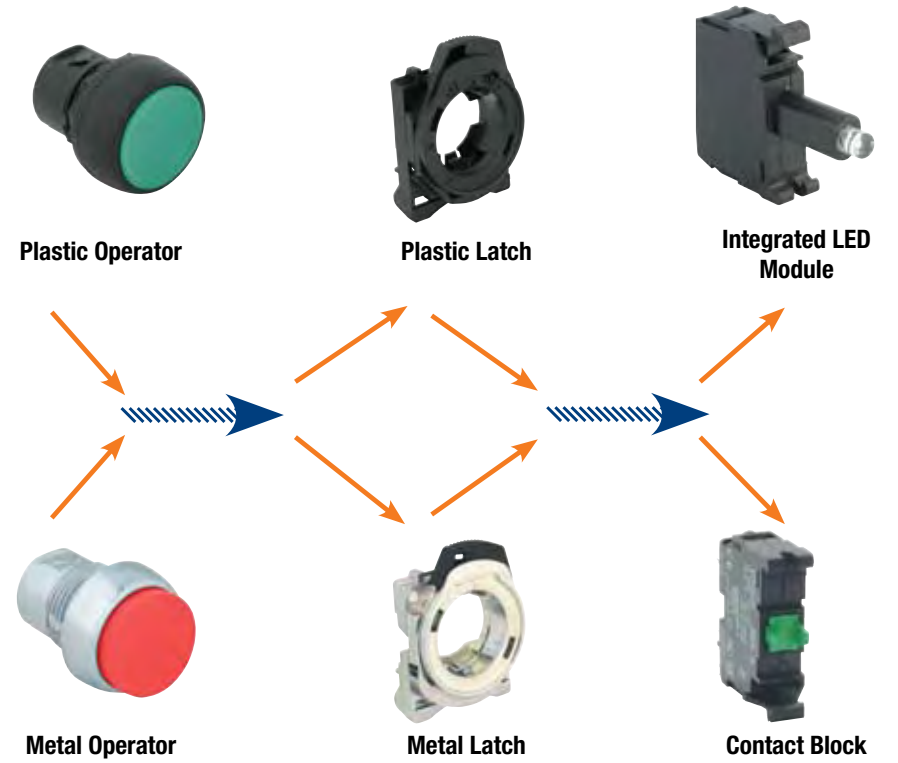


Fast Mounting

Tool-less, snap-in design for fast assembly



Flexibility



Complete Accessories



Superior Design



Push Buttons



Extended



Flush Guarded*



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



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

Also available in 60mm Mushroom

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

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

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

Momentary, Flush* Plastic Metal

• D7P-F0	D7M-F0
• D7P-F1	D7M-F1
• D7P-F2	D7M-F2
• D7P-F3	D7M-F3
• D7P-F4	D7M-F4
• D7P-F5	D7M-F5
• D7P-F6	D7M-F6
• D7P-F9	D7M-F9

Maintained, Flush Plastic Metal

• D7P-FA0	D7M-FA0
• D7P-FA1	D7M-FA1
• D7P-FA2	D7M-FA2
• D7P-FA3	D7M-FA3
• D7P-FA4	D7M-FA4
• D7P-FA5	D7M-FA5
• D7P-FA6	D7M-FA6
• D7P-FA9	D7M-FA9

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



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

Also available in 60mm Mushroom

* Guarded available on Momentary Flush only

* Guarded available on Momentary Flush only

PUSH buttons

MONOLITHIC

emergency STOP

SELECTOR switches

MULTIfunction push buttons

COMPONENTS

PILOT lights

PUSH-PULL operators

RESET operators

OTHER switches

Emergency Stops



Illuminated Twist-to-release, 40mm Mushroom

Plastic	Metal
D7P-LMT44	D7M-LMT44

Complete Unit

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



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

Plastic	Metal
D7P-MT34	D7M-MT34

Complete Unit

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



Twist-to-release, 40mm Mushroom Plastic Metal

Complete Unit

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



Keyed Twist-to-release, 40mm Mushroom

Plastic	Metal
D7P-MK44	D7M-MK44

Complete Unit

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



Twist-to-release, 60mm Mushroom Plastic Metal

Complete Unit

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

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	Metal
• D7P-P0	D7M-P0
• D7P-P3	D7M-P3
• D7P-P4	D7M-P4
• D7P-P5	D7M-P5
• D7P-P6	D7M-P6
○ D7P-P7	D7M-P7
∅ D7P-P9	D7M-P9

∅ Pilot light without lens or diffuser

Reset Operators



Mechanical and/or Electrical Reset

Plastic	Metal
○ D7P-R1	D7M-R1
• D7P-R2	D7M-R2
• D7P-R6	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 |

Also available with spring return

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



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 |

Also available with spring return

- | | |
|-------------------------------|--------------|
| 3 Position, Maintained | |
| Plastic | Metal |
| D7P-KM31 | D7M-KM31 |
| D7P-KM33 | D7M-KM33 |
| D7P-KM34 | D7M-KM34 |
| D7P-KM35 | D7M-KM35 |



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

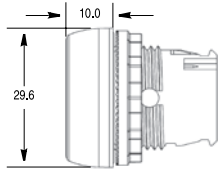


Incandescent Power Module
(bulb not included)

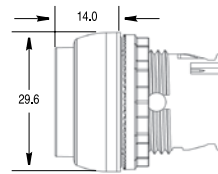
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|--------|--------------|
| D7-D0C | 6-240V AC/DC |
|--------|--------------|

Dimensions* (Approximately in millimeters)

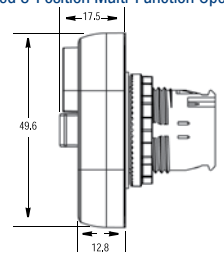
Non-Illuminated and Illuminated
Flush Push Button Operators (D7x-F)



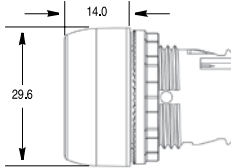
Illuminated and Non-Illuminated
Extended Push Button Operators



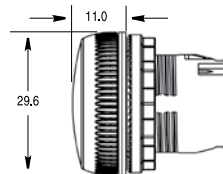
Non-Illuminated 3-Position Multi-Function Operators (D7x-U3)



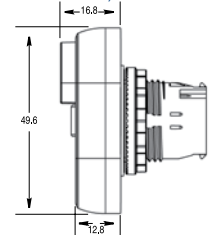
Non-Illuminated Guarded and Non-Illuminated
Maintained Push Button Operators (D7x-G and D7x-FA)



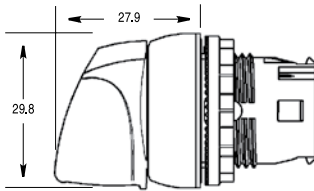
Pilot Light Operators (D7x-P)



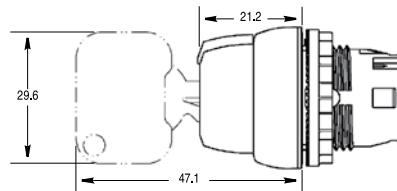
Illuminated and Non-Illuminated 2-Position Multi-Function
Operators (D7x-LU2 & D7x-U2)



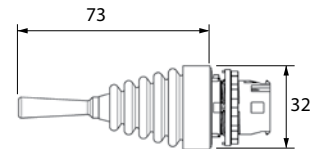
Illuminated and Non-Illuminated Knob Selector Switch
Operators (D7x-LS & D7x-S)



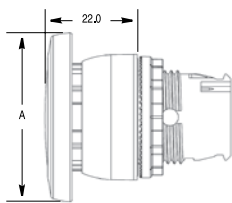
Key Selector Switch Operators (D7x-K)



Toggle Switch Operators (D7M-JM)

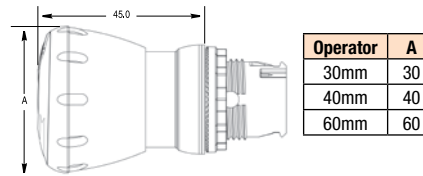


Illuminated and Non-Illuminated
Momentary Mushroom Operators
40mm and 60mm (D7x-LMM & D7x-MM)



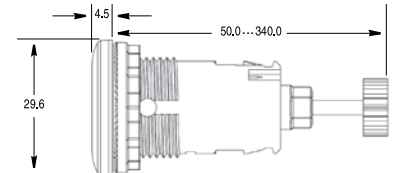
Operator	A
40mm	39.8
60mm	59.8

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

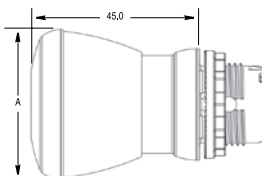


Operator	A
30mm	30
40mm	40
60mm	60

Reset Operators (D7x-R)

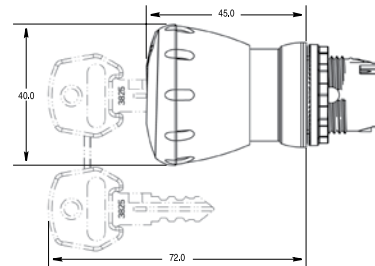


Illuminated and Non-Illuminated
Push-Pull Mushroom Operators 30mm, 40mm, and 60mm
(D7x-MP)

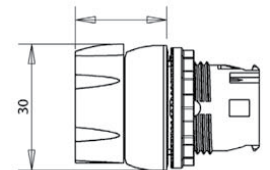


Operator	A
30mm	30
40mm	40
60mm	60

Mushroom Key Release Operator 40mm (D7x-MK)



Selector Jog Operators (D7x-SJ)



Potentiometer with Resistive Element (D7P- POT)



* For Monolithic Devices see the D7D Monolithic Flyer