

CONTROL UNITS — MINIATURE

PUSH BUTTON OPERATORS (NON-ILLUMINATED)



MEETS IEC STANDARDS

CLASS
9001



LEGEND PLATE



OPERATOR



CONTACT BLOCK

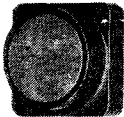
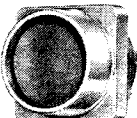
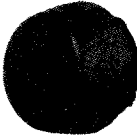
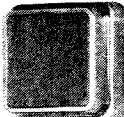


COMPLETE
PUSH BUTTON
UNIT

TYPE D miniature push buttons offer an extremely large variety of devices to the user. Stocking is simplified because all units are interchangeable. All operators and pilot light bezels are self retaining. After engaging the operator into the mounting hole, it retains itself so that the locking ring can be screwed on from behind without assistance. All contact blocks and light modules have a snap-on mounting system. When assembled with proper enclosures, Type D operators provide protection from water, oil and dust and meet IP65 protection category standards.

PUSH BUTTON OPERATORS

Legend Plates and Contact Blocks Not Included

Description		Color Cap	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
	Round Full Guard Button	Universal* Red Black Yellow Green Blue White	D1A1U D1A1R D1A1S D1A1Y D1A1G D1A1B D1A1W	D2A1U D2A1R D2A1S D2A1Y D2A1G D2A1B D2A1W	D3A1U D3A1R D3A1S D3A1Y D3A1G D3A1B D3A1W	D4A1U D4A1R D4A1S D4A1Y D4A1G D4A1B D4A1W	\$ 4.80
	Round No Guard Button	Red	D1A3R	D2A3R	D3A3R	D4A3R	4.80
	Round Extended Guard Button	Universal* Red Black Yellow Green Blue White	D1A7U D1A7R D1A7S D1A7Y D1A7G D1A7B D1A7W	D2A7U D2A7R D2A7S D2A7Y D2A7G D2A7B D2A7W	N/A		4.80
	Fully Booted Push Button Operator	Red Green	N/A		D3A1GR D3A1GG		12.80
	Round Full Guard Booted Button	Red Black Green Yellow Blue	D1A6R D1A6S D1A6G D1A6Y D1A6B	D2A6R D2A6S D2A6G D2A6Y D2A6B	D3A6R D3A6S D3A6G D3A6Y D3A6B	D4A6R D4A6S D4A6G D4A6Y D4A6B	8.80
	Square Full Guard Button	Universal* Red Black Yellow Green Blue White	D1A2U D1A2R D1A2S D1A2Y D1A2G D1A2B D1A2W	D2A2U D2A2R D2A2S D2A2Y D2A2G D2A2B D2A2W	N/A		4.80
	Square Extended Guard Button	Universal* Red Black Yellow Green Blue White	D1A4U D1A4R D1A4S D1A4Y D1A4G D1A4B D1A4W	D2A4U D2A4R D2A4S D2A4Y D2A4G D2A4B D2A4W	N/A		4.80
	Toggle Switch	Blue Red White	D1E1B D1E1R D1E1W	D2E1B D2E1R D2E1W	D3E1B D3E1R D3E1W	D4E1B D4E1R D4E1W	8.80

*Universal operator includes one each of all color caps.

ORDERING INFORMATION REQUIRED
Class and type number
Example: 1-9001 D1A1R

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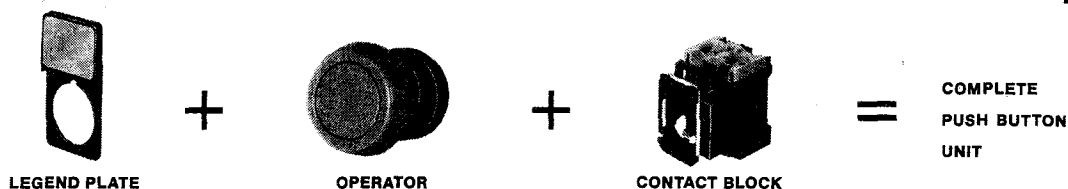




MEETS IEC STANDARDS

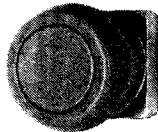
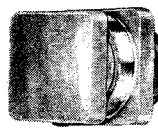
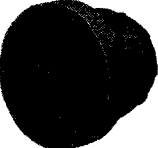
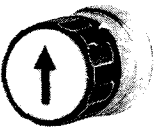
CONTROL UNITS — MINIATURE (NON-ILLUMINATED)

CLASS
9001

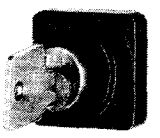


PUSH BUTTON OPERATORS

Legend Plates and Contact Blocks Not Included

Description		Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
 Mushroom	35mm (1.4 inch)	Red Green Yellow	D1B1R D1B1G D1B1Y	D2B1R D2B1G D2B1Y	D3B1R D3B1G D3B1Y	D4B1R D4B1G D4B1Y	\$10.80
	60mm (2.4 inch)	Red Black	D1B2R D1B2S	D2B2R D2B2S	D3B2R D3B2S	D4B2R D4B2S	12.80
 Mushroom	Square	Red	D1A5R	D2A5R	N/A		10.80
 Push to Maintain, Turn to Release	35mm (1.4 inch)	Red	D1C1R	D2C1R	D3C1R	D4C1R	28.80
	29mm (1.14 inch)	Red	D1C2R	D2C2R	D3C2R	D4C2R	24.80
 Push to Maintain Key Operated Release		Red■	D1D1R	D2D1R	D3D1R	D4D1R	40.80
 Fully Booted Mushroom 40mm (1.6 inch)		Red	N/A		D3B1GR		18.80
 Push- Rotate to Maintain		Red Black Yellow	D1F2R D1F2S D1F2Y	D2F2R D2F2S D2F2Y	D3F2R D3F2S D3F2Y	D4F2R D4F2S D4F2Y	8.80

Key Operated Push Buttons

	Lockable in extended and depressed positions	D1LAO	D2LAO	D3LAO	D4LAO	32.80
	Lockable in depressed position	D1LBO	D2LBO	D3LBO	D4LBO	32.80
	Lockable in extended position	D1LCO	D2LCO	D3LCO	D4LCO	32.80
	Push to Maintain Key Operated Release	D1LDO	D2LDO	D3LDO	D4LDO	32.80

■ Replacement Key — Order Class 9001 Type Z07, \$2.00.

ORDERING INFORMATION REQUIRED
Class and type number
Example: 1-9001 D3B1G

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D21 DISCOUNT

371

CONTROL UNITS — MINIATURE SELECTOR SWITCHES

CLASS
9001



LEGEND PLATE



OPERATOR



CONTACT BLOCK

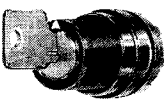


MEETS IEC STANDARDS

**COMPLETE
SELECTOR SWITCH
UNIT**

SELECTOR SWITCHES — OPERATORS

Legend Plates and Contact Blocks Not Included

Description		Operator Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
 Non-Illuminated Selector Switch Operator □	2 Position Maintained	Red Black Yellow	D1G2R D1G2S D1G2Y	D2G2R D2G2S D2G2Y	D3G2R D3G2S D3G2Y	D4G2R D4G2S D4G2Y	\$ 8.80
	3 Position Maintained	Red Black Yellow	D1G3R D1G3S D1G3Y	D2G3R D2G3S D2G3Y	D3G3R D3G3S D3G3Y	D4G3R D4G3S D4G3Y	8.80
	3 Position Spring Return Both Sides to Center	Red Black Yellow	D1G4R D1G4S D1G4Y	D2G4R D2G4S D2G4Y	D3G4R D3G4S D3G4Y	D4G4R D4G4S D4G4Y	10.80
	3 Position Spring Return Right to Center	Red Black Yellow	D1G5R D1G5S D1G5Y	D2G5R D2G5S D2G5Y	D3G5R D3G5S D3G5Y	D4G5R D4G5S D4G5Y	10.80
	3 Position Spring Return Left to Center	Red Black Yellow	D1G6R D1G6S D1G6Y	D2G6R D2G6S D2G6Y	D3G6R D3G6S D3G6Y	D4G6R D4G6S D4G6Y	10.80
 Key Operated Selector Switch Operator	2 Position Maintained Key Operated Selector Switch	—	D1L*	D2L*	D3L*	D4L*	32.80
	3 Position Maintained Key Operated Selector Switch	—	D1L*	D2L*	D3L*	D4L*	32.80
	3 Position Key Operated Selector Switch — Spring Return Both Sides to Center	—	D1L9O	D2L9O	D3L9O	D4L9O	42.80
 Illuminated Selector Switch Operator Δ	2 Position Maintained	Red Black	D1G20R D1G20S	D2G20R D2G20S	D3G20R D3G20S	D4G20R D4G20S	12.80
	3 Position Maintained	Red Black	D1G30R D1G30S	D2G30R D2G30S	D3G30R D3G30S	D4G30R D4G30S	12.80
	3 Position Spring Return Both Sides to Center	Red Black	D1G40R D1G40S	D2G40R D2G40S	D3G40R D3G40S	D4G40R D4G40S	18.80
	3 Position Spring Return Right to Center	Red Black	D1G50R D1G50S	D2G50R D2G50S	D3G50R D3G50S	D4G50R D4G50S	18.80
	3 Position Spring Return Left to Center	Red Black	D1G60R D1G60S	D2G60R D2G60S	D3G60R D3G60S	D4G60R D4G60S	18.80

• Replacement Key — Order Class 9001 Type Z18 \$2.00.
□ Use contacts on Page 373.
Δ Light module assemblies on Page 374.

SELECTOR SWITCH SEQUENCES

TWO POSITION

		ORDER CONTACT BLOCK SYMBOL
↖	↗	□ □
1	0	□ □
0	1	□ □
1	0	□ □
0	1	□ □

THREE POSITION

			ORDER CONTACT BLOCK SYMBOL
↖	↑	↗	□ □ □
1	0	0	□ □ □
0	0	1	□ □ □
1	1	0	□ □ □
0	1	1	□ □ □

FOR OTHER CONTACT SEQUENCE COMBINATIONS
SEE PAGE 373.

*KEY WITHDRAWAL CODES

For 2-Position Switches		
Code	↖	↗
10	Yes	No
20	No	Yes
30	Yes	Yes

For 3-Position Switches			
Code	↖	↑	↗
40	Yes	No	No
50	No	No	Yes
60	No	Yes	No
70	Yes	No	Yes
80	Yes	Yes	Yes
90	No	Yes	No

ORDERING INFORMATION REQUIRED
Class and type number

Example: 1-9001 D1G2R

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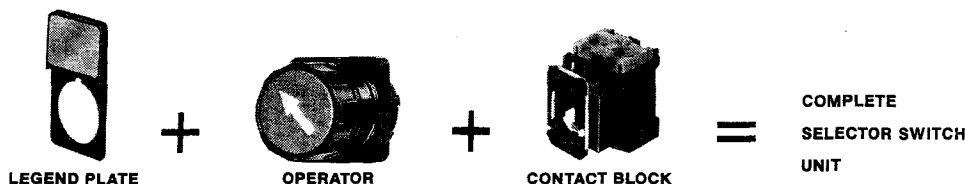




MEETS IEC STANDARDS

CONTROL UNITS — MINIATURE SELECTOR SWITCHES

CLASS
9001

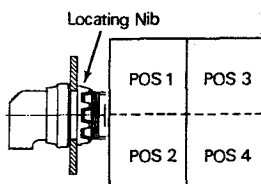


SELECTOR SWITCHES — OPERATORS

Legend Plates and Contact Blocks Not Included

Description	Lens Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
 2 Position Maintained	Red Black Yellow	D1H2R D1H2S D1H2Y	D2H2R D2H2S D2H2Y	D3H2R D3H2S D3H2Y	D4H2R D4H2S D4H2Y	\$8.80
 3 Position Maintained	Red Black Yellow	D1H3R D1H3S D1H3Y	D2H3R D2H3S D2H3Y	D3H3R D3H3S D3H3Y	D4H3R D4H3S D4H3Y	8.80
 2 Position Maintained	Red Black Yellow	D1H4R D1H4S D1H4Y	D2H4R D2H4S D2H4Y	D3H4R D3H4S D3H4Y	D4H4R D4H4S D4H4Y	8.80
 2 Position Maintained	Red Black Yellow	D1H5R D1H5S D1H5Y	D2H5R D2H5S D2H5Y	D3H5R D3H5S D3H5Y	D4H5R D4H5S D4H5Y	8.80
 3 Position Maintained	Red Black Yellow	D1H7R D1H7S D1H7Y	D2H7R D2H7S D2H7Y	D3H7R D3H7S D3H7Y	D4H7R D4H7S D4H7Y	8.80

Other three position contact sequences can be obtained by referencing table below.



			Use Contact Block Type	Mount in Position
				
1	0	0	DA-10	2
0	1	0	DA-02	1 & 2*
0	0	1	DA-10	1
1	1	0	DA-01	1
0	1	1	DA-01	2
1	0	1	DA-20	1 & 2Δ

* Wire the two normally closed contacts in series.
Δ Wire the two normally open contacts in parallel.

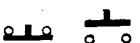
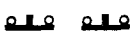
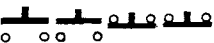
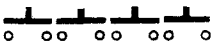
**FOR OTHER CONTACT SEQUENCE COMBINATIONS
CONTACT YOUR LOCAL SQUARE D FIELD OFFICE.**

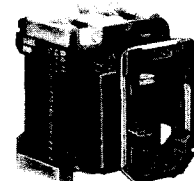
The following block consolidations are possible:

DA-01 (Pos. 1) + DA-10 (Pos. 2) = DA-20 (Pos. 1 & 2)
DA-01 (Pos. 1) + DA-01 (Pos. 2) = DA-02 (Pos. 1 & 2)
DA-10 (Pos. 1 or 2) + DA-01 (Pos. 2 or 1) = DA-11 (Pos. 1 & 2)

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CONTACT BLOCKS

Contact Arrangement Symbol	FOR MOUNTING TO OPERATOR		Price	FOR MOUNTING TO CONTACT BLOCK		Price
	Pressure Wire Terminals	Slip On Connectors★		Pressure Wire Terminals	Slip On Connectors★	
	Type	Type		Type	Type	
	DA10	DD10	\$ 8.	DB10	DE10	\$ 6.
	DA01	DD01	8.	DB01	DE01	6.
	DA11	DD11	14.	DB11	DE11	12.
	DA20	DD20	14.	DB20	DE20	12.
	DA02	DD02	14.	DB02	DE02	12.
Overlapping Contacts 1 - N.O., 1 - L.O. N.C.	DA1U	DD1U	18.			
	DC22	DF22	26.			
	DC40	DF40	26.			
	DC04	DF04	26.			



Type DA-11

★Adapter for mounting contact blocks to an operator is a 9001 Z11, \$2.00.

NOTE: Use a maximum of two contact blocks per operator. Types DC and DF consist of two contact blocks.

★Accepts commercially available 6.3mm (.25 in.) or 2.8mm (.110 in.) wide by .8mm (.032 in.) tab thickness slip on connectors.

ORDERING INFORMATION REQUIRED

Class and type number
Example: 1-9001 D1H2R
1-9001 DA-11



D21 DISCOUNT

373

CONTROL UNITS — MINIATURE TYPE D OPERATORS

CLASS
9001



MEETS IEC STANDARDS



OPERATOR

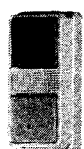


CONTACT BLOCK



COMPLETE
UNIT

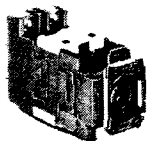
Legend Plates and Contact Blocks Not Included

Description		Operator Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
	Dual Function Non-Illuminated Operator	Blank Green/Red Inserts	D1M1Z●	D2M1Z●	N/A		\$12.80
	Dual Function Illuminated Operator See below for Light Module Assembly		D1M2Z●	D2M2Z●			12.80
	Operator only* Unit accepts pot with 6mm (.25 inch) diameter by 41mm (1.625 inch) shaft length	Black	D1R1S	D2R1S	D3R1S	D4R1S	52.00
	Hour Counter□ 120/60 Hz Indication 0-9999 Hours With Slip-On Connectors	Gray	D1S1O	D2S1O	N/A		125.00
	Fuse Holder (Less Fuse) Current 6.3 Amps. Voltage: 250 V For Fuses 5mm to 20mm Solder Terminals	Black	D1T1S	D2T1S	D3T1S	D4T1S	24.80

• This operator provides IP-40 protection.

□ For other voltages, contact local Square D Field Office.

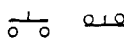
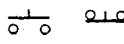
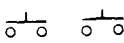
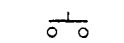
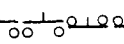
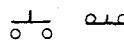
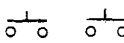
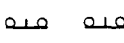
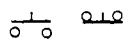
* The pot required for use with the Class 9050 Type D timing relay (10m ohms, 0.2w pot) can be ordered as a Class 9001 Type DZ-1, \$22.00.



LIGHT MODULE ASSEMBLIES

The light modules listed below are to be used with the illuminated selector switch operators listed on Page 372, the illuminated push buttons listed on top of Page 375 and the illuminated dual function operator above. For pilot lights, use the light modules listed on Page 376.



Voltage	Description	Contact Arrangement	Screw Terminal	Slip-On Tab	Price	Lamps		Price
Pri /Sec/Code 110-120/ 6V ●C 220-240/ 6V ●D 380-420/ 6V ●E 500 / 6V ●G Contact Local Field Office for other Voltages.	Transformer Light Module Momentary Contacts		DTS●11	DTF●11	\$44.50*	Filament Lamp 6V/1.2W 12V/1.2W 24V/1.2W 48V/1.2W 60V/1.2W 120V/1.8W	Z25 Z26 Z27 Z28 Z29 Z32A	\$3.50 4.50 4.50 4.50 4.50 5.50
	Transformer Light Module with Alternate Action (Push On – Push Off) Contacts		DTS●R1	DTF●R1	60.50*			
FULL VOLTAGE Light Module 6V to 120V Max. AC/DC	Momentary Contact		DFSN11	DFFN11	25.50*	LED Lamps△ 24V AC/DC .4 Watts Green Red Yellow	Z91G Z91R Z91Y	12.00 12.00 12.00
			DFSN20		25.50*			
			DFSN10		19.50*			
			DFSN22	DFFN22	37.50*			
	Provides Alternate Action (Push On – Push Off)		DFSNR1	DFFNR1	41.50*	△ Can only be used with illuminated push button operators (see page 375) or pilot light operators (see page 375) where the lens color and the lamp color are the same. Use full voltage light modules (see page 376) or full voltage light module assemblies (see chart on left). * Does not include a lamp. Lamp of proper voltage must be ordered separately. ● Insert proper voltage code from column at left.		
			DFSNR2		41.50*			
			DFSNR3		41.50*			
Remote Test Full Voltage Light Module 6V to 120V max. AC/DC. See Page 376 for wiring diagram.	Momentary Contact		DS2N11	DF2N11	47.50*	ORDERING INFORMATION REQUIRED Class and type number Example: 1-9001 DTSC11 and 1-9001 Z25.		
	Provides Alternate Action (Push On – Push Off)		DS2NR1	DF2NR1	63.50*			

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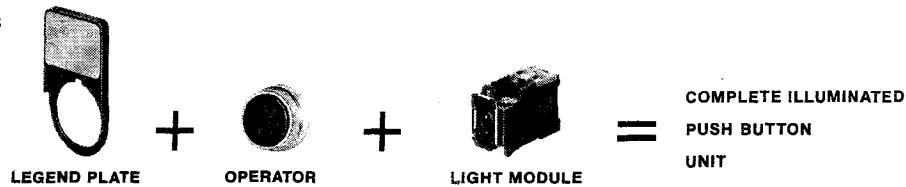




MEETS IEC STANDARDS

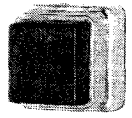
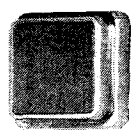
CONTROL UNITS — MINIATURE ILLUMINATED OPERATORS

CLASS
9001



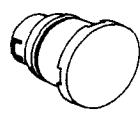
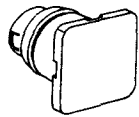
OPERATORS FOR ILLUMINATED PUSH BUTTON ASSEMBLIES

Legend Plates, Light Modules and Contact Blocks Not Included

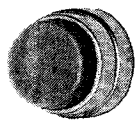
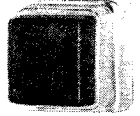
Description*		Lens Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
	Round Insert Full Guard	Red Green Yellow Blue White No Insert	D1Y1R D1Y1G D1Y1Y D1Y1B D1Y1W D1Y1O	D2Y1R D2Y1G D2Y1Y D2Y1B D2Y1W D2Y1O	D3Y1R D3Y1G D3Y1Y D3Y1B D3Y1W D3Y1O	D4Y1R D4Y1G D4Y1Y D4Y1B D4Y1W D4Y1O	\$6.80 4.80
	Square Insert No Guard	Red Green Yellow Blue White No Insert	D1Y2R D1Y2G D1Y2Y D1Y2B D1Y2W D1Y2O	D2Y2R D2Y2G D2Y2Y D2Y2B D2Y2W D2Y2O	N/A		4.80 2.80
	Square Insert Full Guard	Red Green Yellow Blue White No Insert	D1Y3R D1Y3G D1Y3Y D1Y3B D1Y3W D1Y3O	D2Y3R D2Y3G D2Y3Y D2Y3B D2Y3W D2Y3O	N/A		6.80 4.80

* Use light module assemblies listed on Page 374.

LENS CAPS FOR ILLUMINATED PUSH BUTTONS

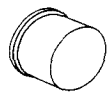
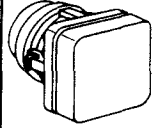
Description	Color	Type	Price	Description	Color	Type	Price
	Red Green Yellow Blue White	Z22R Z22G Z22Y Z22B Z22W	\$2.00		Red Green Yellow Blue White	Z23R Z23G Z23Y Z23B Z23W	\$2.00
Round Color Cap for D1Y1-D2Y1 D3Y1-D4Y1				Square Color Cap For D1Y2-D2Y2 and D1Y3-D2Y3			

PILOT LIGHTS

Description△		Color	Square Black Bezel	Square Chrome Bezel	Round Black Bezel	Round Chrome Bezel	Price
	Round Insert	Red Green Yellow Blue White No Cap	D1V1R D1V1G D1V1Y D1V1B D1V1W D1V1O	D2V1R D2V1G D2V1Y D2V1B D2V1W D2V1O	D3V1R D3V1G D3V1Y D3V1B D3V1W D3V1O	D4V1R D4V1G D4V1Y D4V1B D4V1W D4V1O	\$2.80 .80
	Square Insert	Red Green Yellow Blue White No Cap	D1V2R D1V2G D1V2Y D1V2B D1V2W D1V2O	D2V2R D2V2G D2V2Y D2V2B D2V2W D2V2O	N/A		2.80 .80

△ Use light module assemblies listed on Page 376.

LENS CAPS FOR PILOT LIGHTS

Description	Color	Type	Price	Description	Color	Type	Price
	Red Green Yellow Blue White	Z19R Z19G Z19Y Z19B Z19W	\$2.00		Red Green Yellow Blue White	Z20R Z20G Z20Y Z20B Z20W	\$2.00
Round Lens Cap for D1V1-D2V1 D3V1-D4V1				Square Lens Cap For D1V2 and D2V2			

PUSH-TO-TEST PILOT LIGHTS

Use above illuminated push button operators with light module assemblies listed on Page 374 with a normally open/normally closed contact block (i.e., 9001 DTSC1 plus 9001 Z25 lamp).

ORDERING INFORMATION REQUIRED

Class and type number
Example: 1-9001 D1Y1R

LEGEND PLATES — Page 377

APPLICATION DATA — Page 378
ACCESSORIES — Page 376



D21 DISCOUNT

375

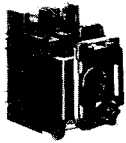
CONTROL UNITS — MINIATURE

CLASS
9001



MEETS IEC STANDARDS

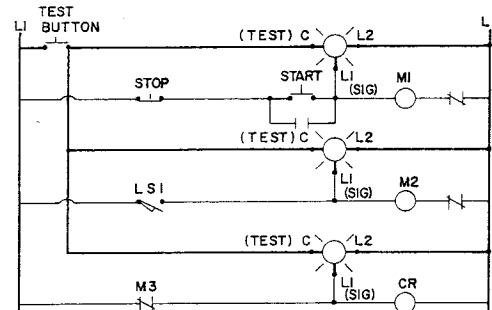
LIGHT MODULES FOR PILOT LIGHTS ON PAGE 375

Description	Voltage*	Screw Terminal	Slip On Terminal	Price
 Transformer Light Module	Pri. /Sec 110/120/6V 220/240/6V 380/420/6V 500/6V	DTSC DTSD DTSE DTSG	DTFC DTFD DTFE DTFG	\$32.50*
Full Voltage Module	6V to 120V AC/DC	DFSN	DFFN	13.50*
Remote Test Full Voltage Light Module	6V to 120V max. AC/DC	DS2N	DF2N	35.50*

* Price does not include lamp. Lamps listed on Page 374.

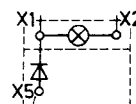
• Contact local Field Office for availability of other voltages.

REMOTE TEST LIGHT MODULE — Typical Wiring Diagram



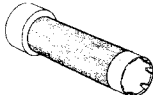
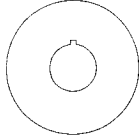
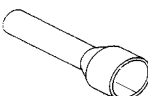
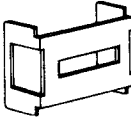
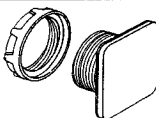
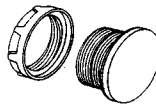
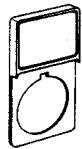
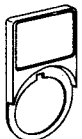
ENCLOSURES

The Type LYA enclosures listed on Page 383 can be used with Type D miniature control units when used without legends. The Type D control unit must be mounted vertically in the enclosure with the mounting flanges on the top and bottom.



X1 connection is to L1 (signal).
X2 connection is to L2.
X5 connection is to common test.

ACCESSORIES

Description	Type	Price	Description	Type	Price
 Boot for D3A1, D4A1	Z17	\$4.00	 Yellow Contrast Label Without Marking 68 x 30 mm	Z10	\$1.20
 Wrench For Tightening Ring Nuts	Z01	2.30	 Yellow Contrast Label Without Marking 65 mm dia.	Z09	1.20
 Lamp Extractor	Z02	8.00	 Marking Clip For Contact Block and Lampholder Not Suitable For Transformers	Z05	.50
 Closing Plate Square — Plastic Gray Black	Z03 Z33	4.00 4.00	 Alternate Action Adapter For Contact Blocks on Page 373	Z14	16.00
 Closing Plate Round — Plastic Gray Black	Z04 Z34	4.00 4.00	 Legend Plate Holder For Square Bezels (Without Legend Plate) Use Legend Inserts Listed on Page 377	Z15	.30
 Ring Nut For Fastening In Panels Or Enclosures	Z08	.80	 Legend Plate Holder For Round Bezels (Without Legend Plate) Use Legend Inserts Listed on Page 377	Z16	.30
 For Coupling Two Different Enclosures	Z06	4.00			

ORDERING INFORMATION REQUIRED

Class and type number
Example: 1 — 9001 Z01





MEETS IEC STANDARDS

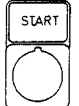
CONTROL UNITS — MINIATURE LEGEND PLATES AND MARKINGS

CLASS
9001

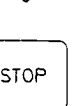
ANODIZED ALUMINUM PLATES

Lettering and Symbols Black.

LEGENDS WITH HOLDER

For square and round bezels. Includes legend plate holder				
	Square		Round	
				
Marking	Type	Price	Type	Price
Special Marking	99 Q	\$5.20	99 R	\$5.20
Blank Plate	01 Q	1.20	01 R	1.20
O	02 Q		02 R	
I	03 Q		03 R	
II	04 Q		04 R	
O I	05 Q		05 R	
II O I	34 Q		34 R	
START	17 Q		17 R	
STOP	18 Q		18 R	
ON	62 Q		62 R	
OFF	63 Q		63 R	
OPEN	64 Q		64 R	
CLOSE	65 Q		65 R	
FORWARD	66 Q		66 R	
REVERSE	67 Q		67 R	
RESET	68 Q		68 R	
JOG	69 Q		69 R	
RAISE	70 Q		70 R	
LOWER	71 Q		71 R	
IN	72 Q		72 R	
OUT	73 Q		73 R	
INCH	74 Q		74 R	
RUN	75 Q		75 R	
UP	76 Q		76 R	
DOWN	77 Q		77 R	
FAST	78 Q		78 R	
SLOW	79 Q		79 R	
HIGH	80 Q		80 R	
LOW	81 Q		81 R	
TEST	84 Q		84 R	
OFF ON	85 Q		85 R	
EMERG. STOP	82 Q		82 R	
HAND AUTO	21 Q		21 R	
HAND O AUTO	24 Q		24 R	

LEGENDS WITHOUT HOLDER

Legend Plates are self adhesive.				
				
Marking	Type	Price	Type	Price
Special Marking	99 S	\$4.90	99 W	\$4.90
Blank Plate	01 W	.90	01 W	.90
O	02 W		02 W	
I	03 W		03 W	
II	04 W		04 W	
O I	05 W		05 W	
II O I	34 S		34 W	
START	17 S		17 W	
STOP	18 S		18 W	
ON	62 S		62 W	
OFF	63 S		63 W	
OPEN	64 S		64 W	
CLOSE	65 S		65 W	
FORWARD	66 S		66 W	
REVERSE	67 S		67 W	
RESET	68 S		68 W	
JOG	69 S		69 W	
RAISE	70 S		70 W	
LOWER	71 S		71 W	
IN	72 S		72 W	
OUT	73 S		73 W	
INCH	74 S		74 W	
RUN	75 S		75 W	
UP	76 S		76 W	
DOWN	77 S		77 W	
FAST	78 S		78 W	
SLOW	79 S		79 W	
HIGH	80 S		80 W	
LOW	81 S		81 W	
TEST	84 S		84 W	
OFF ON	85 S		85 W	
EMERG. STOP	82 S		82 W	
HAND AUTO	21 S		21 W	
HAND O AUTO	24 S		24 W	

• Can be used with Legend Plate Holders listed on Page 376.

Markings and Symbols

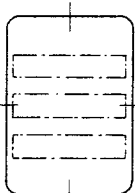
(Hot-imprinted on plastic button inserts or color caps of pilot lights, etc.)

For square and round Push Buttons, Pilot Light Bezels, and Illuminated Push Buttons.

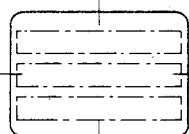
Contact local Square D Field Office for availability.

Possible engraving or imprinting for plastic button inserts, pilot light caps and anodized aluminum legend plates.
Size of type 3.5 mm — 0.14 inches.

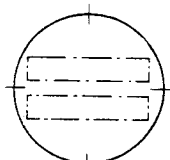
Anodized aluminum legend plates



Up to three lines 8 letters max. per line

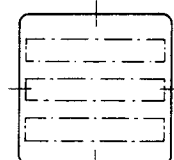


Up to three lines 12 letters max. per line



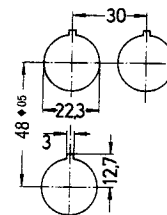
Single line 10 letters max.
Two lines 9 letters max.

Button inserts and pilot light caps

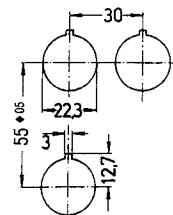


Up to three lines 10 letters max. per line.

Mounting hole diameter and minimum center line spacings



Without Legend Plate Holder



With Legend Plate Holder

ORDERING INFORMATION REQUIRED

Example: 9001 24W



D21 DISCOUNT

377

CONTROL UNITS — MINIATURE

APPLICATION AND TECHNICAL DATA

CLASS
9001



MEETS IEC STANDARDS

The Type D Miniature Push Button Line offers a large variety of operators and contact blocks. Stocking is simplified by the fact that all units are interchangeable.

All operators and pilot lights are self-retaining. After inserting the operator into the panel mounting hole, it retains itself so that the locking ring can be screwed on from behind without assistance (one man mounting).

All contact blocks and light modules have a snap-on mounting system. Assembly of the complete unit is quickly done by snapping the elements together. Within seconds, a reliable assembly is made.

Individual contacts of a contact block are completely isolated from each other. Each contact is color coded for quick identification. A red terminal shroud denotes a normally closed contact and a green terminal shroud denotes a normally open contact. All terminals are shrouded and have lead-in guides for wires, resulting in quicker wiring.

A rigid guide at each terminal guides the screwdriver directly to the terminal screw.

All terminal screws are captive with self-lifting pressure wire clamps. Contact blocks with slip-on connections are also available.

The same contact blocks, lampholders etc. are used independent of the shape of the bezel. They are made of high quality arc resistant tracking moldings. Reliability in operation and positive switching — even for very low voltages — is provided by separate operation of the make and break contact, self-cleaning double-break silver nickel contacts and high contact pressure.

As the contact blocks are equipped with direct acting contacts in accordance with VDE 0113 standards, they may be used for emergency stop applications. For identification purposes a snap-on marking clip for three plastic labels is available. This can be fitted to the back of most contact blocks or lampholders. Contact identification meets DIN EN 50013. Snap-in legend plates and lenses for push buttons and pilot lights are completely independent of the mounting of the operator. They can be added or replaced at any time. Minimum center-to-center panel spacings for square and round bezel operators is 30 mm (1.2 in.) horizontal and 50 mm (2.0 in.) vertical (without legend plate bearer).

APPLICATION DATA

Description	IP Protection Category	Mech. Life Mill.	Ambient Temperature (Open-Style)	
			°C max.	°C Min.
Contact Blocks	—	10	+60	—40
Snap-On Units for Illuminated Push Buttons	—	10	+60	—40
Snap-On Units for Illuminated Alternate Action Push Buttons (Push-ON/Off)	—	1	+60	—40
OPERATORS Push Button Mushroom Push Button Mushroom — Turn to Reset Mushroom — Key Reset Toggle Switch Push-and-Turn Selector Switch Selector Switch Key Switch	65	10 1.0 0.1 0.1 0.5 0.5 1 0.1	+60	—40
Combined Double Button	40	3		
Pilot Light	65	—	+60	—40
Illuminated Push Button	65	3	+60	—40
Enclosures	65	—	+60	—40

UL/CSA: Class 9001 Type D operators (when used with Type D contact blocks with pressure wire terminals) are UL listed File E71578 Guide NKCR. When they are used with Type D contact blocks with slip on connectors they are component recognized File E71578 Guide NKCR-2. Class 9001 Type D is CSA certified File LR12721 Guide 184-N-13.1U.

MAXIMUM AC CONTACT RATINGS

Volts	AC					
	Inductive — NEMA A600 35% Power Factor				Resistive 75% Power Factor	
	Make		Break		Continuous Carrying Amperes	Make, Break and Contin- uous Amperes
	Amperes	VA	Amperes	VA		
120	60	7200	6	720	10	10
240	30	7200	3	720	10	10
480	15	7200	1.5	720	10	10
600	12	7200	1.2	720	10	10

The Class 9001 Type D push button line meets many industrial standards worldwide. The major ones are:



UNITED STATES



CANADA



GERMANY



DENMARK



SWITZERLAND

PLUS OTHERS.

IP PROTECTION CATEGORY - Definitions

IP-40	Operators with this category protect against contact with live or moving parts of a size greater than 1 mm.	IP-65	Operators with this category provide complete protection against contact with live or moving parts inside the enclosure. In addition, this category states that fluid projected by a nozzle from any direction will not have a harmful effect when mounted in an enclosure of this category.
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