

# Pushbuttons

Easy selection guide

Operator Control Devices



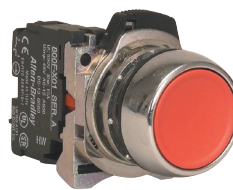
# Pushbuttons, Pilot Lights & Selector Switches

Your choice.

## Section 1: Complete Units

Select your control device from the ready made complete units. This section covers the following 22.5mm ranges:

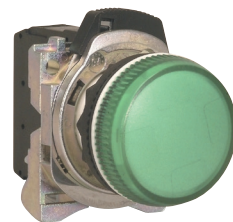
- Pushbuttons
- Emergency stops
- Pilot lights
- Selector switches



Pushbuttons



Emergency stops



Pilot lights



Selector switches

## Section 2: Components

This section covers the following items:

- Operator heads
- Legend plates
- Mounting rings
- Coupling plates
- Contact blocks / Power Modules

Refer to page 8 for more information

Tool-less snap in design  
for fast assembly.



## Section 1: Complete Units

### Non-Illuminated Momentary Pushbuttons

- Metal or plastic option
- Momentary action with fast response
- Low mounting depth from panel
- IP66 and IP69K (selected components) ingress protection rating
- Laser etched markings for improved abrasion resistance



D7M-F4-MX01



D7M-F301-MX10



D7P-E402-PX01

#### Flush

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
With green insert	1 N/O	D7P-F3-PX10 <sup>1)</sup> **	D7M-F3-MX10
With red insert	1 N/C	D7P-F4-PX01 <sup>1)</sup> **	D7M-F4-MX01
With blue insert	1 N/O	D7P-F6-PX10 <sup>1)</sup> **	D7M-F6-MX10
With green insert labelled "start"	1 N/O	D7P-F301-PX10 <sup>1)</sup> **	D7M-F301-MX10
With red insert labelled "stop"	1 N/C	D7P-F402-PX01 <sup>1)</sup> **	D7M-F402-MX01
With blue insert labelled "reset"	1 N/O	D7P-F607-PX10**	D7M-F607-MX10

#### Extended

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
With red insert labelled "stop"	1 N/C	D7P-E402-PX01 ***	D7M-E402-MX01

### Illuminated Momentary Pushbuttons

- Integrated LED lamp block and contact blocks
- Long life integrated LED illumination
- IP66 and IP69K (selected components) ingress protection rating



D7P-LF4-PN3R-X01



D7P-LF3-PN7G-X10

#### 24 AC/DC

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
Green pushbutton/green LED	1 N/O	D7P-LF3-PN3G-X10 <sup>1)</sup> *	D7M-LF3-MN3G-X10
Red pushbutton/red LED	1 N/C	D7P-LF4-PN3R-X01 <sup>1)</sup> *	D7M-LF4-MN3R-X01
Blue pushbutton/white LED	1 N/O	D7P-LF6-PN3W-X10 <sup>1)</sup> *	D7M-LF6-MN3W-X10

#### 240V AC

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
Green pushbutton/green LED	1 N/C	D7P-LF3-PN7G-X10 <sup>1)</sup> *	D7M-LF3-MN7G-X10
Red pushbutton/red LED	1 N/C	D7P-LF4-PN7R-X01 <sup>1)</sup> *	D7M-LF4-MN7R-X01
Blue pushbutton/white LED	1 N/O	D7P-LF6-PN7W-X10 <sup>1)</sup> *	D7M-LF6-MN7W-X10

<sup>1)</sup> Also available in D7 hangsell packaged form

\* IP69K rating

\*\* IP69K rating when used with a protective boot (D7-AB7)

\*\*\* IP69K rating when used with protective boot (D7-ABE7)

## Section 1: Complete Units

### Emergency Stop Operators

- IP66 and IP69K (selected components) ingress protection rating
- Choice of “auto break” or standard normally closed contacts
- Extra security key release
- Complies with AS/NZS 3947.5.5:2000



D7-A6PR5



D7PMT34PX01

#### Emergency Stop Operators - Keyed and Non-keyed

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
Twist to reset/standard contact blocks 30mm operator	1 N/C	D7P-MT34-PX01 1)*	D7M-MT34-MX01
Twist to reset/standard contact blocks 40mm operator	1 N/C	D7P-MT44-PX01 1)*	D7M-MT44-MX01
Key to reset/standard contact blocks 40mm operator	1 N/C	D7P-MK44-PX01	D7M-MK44-MX01
40mm operator with “auto break” safety contact block	1 N/C	D7P-MT44-PX01S*	D7M-MT44-MX01S

#### Accessories

Item	Description	Catalogue No.
85mm Protective guard yellow.	Suit 30, 40 + 60mm illuminated and non-illuminated, twist to release emergency stop operators. (operator supplied separately)	D7-A6PR5

### Enclosed Emergency Stop Operators

- Modern low profile
- Metric cable entry knockout M16/20mm
- IP66 ingress protection rating



D71YM1



D71MM1

Description	Contact	Catalogue No.
Plastic enclosures with emergency stop “twist to reset” operator. Yellow enclosure 40mm plastic operator	1 N/C	D71YM1
Metal enclosures with emergency stop “twist to reset” operator. Grey enclosure 40mm metal operator	1 N/C	D71MM1#

**Note:** #Yellow metal enclosure also available. Contact NHP.

#### Accessories

Item	Description	Diameter	Catalogue No.
Emergency stop rings: self-adhesive	Blank	60mm	D7-15Y
	Blank	90mm	D7-16Y
	Printed “emergency stop” for 30/40mm	60mm	D7-15YE112
	Printed “emergency stop” for 60mm	90mm	D7-16YE112



D7-15YE112

1) Also available in D7 hangsell packaged form  
\* IP69K rating

## Section1: Complete Units

### Pilot Light with Integrated LED Lamp Block

- IP66 and IP69K (selected components) ingress protection rating
- Superior LED illumination qualities
- Scratch resistant lenses



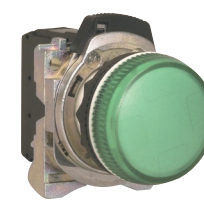
D7P-P6-PN3W



D7P-P5-PN3W



D7P-P4-PN3R



D7M-P3-MN3G

#### 24 AC/DC

Description	Plastic body Catalogue No.	Metal body Catalogue No.
Green pilot light/green LED	D7P-P3-PN3G 1)*	D7M-P3-MN3G
Red pilot light/red LED	D7P-P4-PN3R 1)*	D7M-P4-MN3R
Blue pilot light/white LED	D7P-P6-PN3W 1)*	D7M-P6-MN3W
Amber pilot light/white LED	D7P-P0-PN3W 1)*	D7M-P0-MN3W
Yellow pilot light/white LED	D7P-P5-PN3W 1)*	D7M-P5-MN3W
Translucent pilot light/white LED	D7P-P7-PN3W 1)*	D7M-P7-MN3W

#### 240V AC

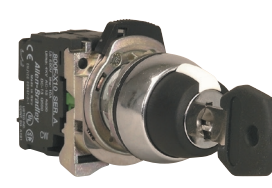
Description	Plastic body Catalogue No.	Metal body Catalogue No.
Green pilot light/green LED	D7P-P3-PN7G 1)*	D7M-P3-MN7G
Red pilot light/red LED	D7P-P4-PN7R 1)*	D7M-P4-MN7R
Blue pilot light/white LED	D7P-P6-PN7W 1)*	D7M-P6-MN7W
Amber pilot light/white LED	D7P-P0-PN7W 1)*	D7M-P0-MN7W
Yellow pilot light/white LED	D7P-P5-PN7W 1)*	D7M-P5-MN7W
Translucent pilot light/white LED	D7P-P7-PN7W 1)*	D7M-P7-MN7W

### Standard Lever and Key Operated Selector Switches

- IP66 ingress protection rating
- Raised detent for improved switching capabilities
- Ergonomic handles



D7P-SM22-PX10



D7M-KM34-MX20

Description	Contact	Plastic body Catalogue No.	Metal body Catalogue No.
Maintained operation 2 pos rotary SW 60°	1 N/O	D7P-SM22-PX10 1)	D7M-SM22-MX10
3 pos rotary SW 2 x 60°	2 N/O	D7P-SM32-PX20 1)	D7M-SM32-MX20
2 pos key SW 60°	1 N/O	D7P-KM21-PX10 1)	D7M-KM21-MX10

1) Also available in D7 hangsell packaged form  
\* IP69K rating

# D7 Operator Control Hangsell Packaging

- Select from a range of four universal (pushbuttons/pilot lights) and sixteen standard hangsell items
- Reduce number of stocked SKU's with the D7 universal hangsell packaged items



## D7 Universal Hangsell Items

### Pushbuttons 22.5mm

Description	Contact Blocks	Coupling Plate material	Catalogue No.
Operator Head (Momentary Action), Multi-Colour Caps (Green, Black, White, Yellow and Blue)	1 N/O	Plastic	D7PPBNOUHS**
Operator Head (Momentary Action), Multi-Colour Caps (Red, Black, White, Yellow and Blue)	1 N/C	Plastic	D7PPBNCUHS**



### Pilot Light 22.5mm

Description	Coupling Plate material	Voltage	Catalogue No.
Operator Head, Multi-Colour Lens Caps, White LED Module 24-120V AC/DC	Plastic	24-120V AC/DC	D7PPL120UHS*
Operator Head, Multi-Colour Lens Caps, White LED Module 240V AC	Plastic	240V AC	D7PPL240UHS*



## D7 Standard Hangsell Items

### Pushbutton 22.5mm, Flush, Non-illuminated

Description	Contacts	Coupling Plate material	Catalogue No.
Operator Head (Momentary Action), Green Cap "START"	1N/O	Plastic	D7PF30HS1PX10HS**
Operator Head (Momentary Action), Red Cap "STOP"	1N/C	Plastic	D7PF402PX01HS**



\* IP69K rating

\*\* IP69K rating when used with a protective boot (D7-AB7)

## Pushbutton 22.5mm, Flush, Illuminated

Description	Contacts	Voltage	Coupling Plate material	Catalogue No.
Operator Head (Momentary Action), Green Lens Cap, Green LED Module	1N/O	24V AC/DC	Plastic	D7PLF3PN3GX10HS*
Operator Head (Momentary Action), Red Lens Cap, Red LED Module	1N/C	24V AC/DC	Plastic	D7PLF4PN3RX01HS*
Operator Head (Momentary Action), Blue Lens Cap, White LED Module	1N/O	24V AC/DC	Plastic	D7PLF6PN3WX10HS*
Operator Head (Momentary Action), Red Lens Cap, Red LED Module	1N/C	240V AC	Plastic	D7PLF4PN7RX01HS*
Operator Head (Momentary Action), Green Lens Cap, Green LED Module	1N/O	240V AC	Plastic	D7PLF3PN7GX10HS*



## Pilot Lights 24V AC/DC

Description	Coupling Plate material	Catalogue No.
Operator Head, Green Lens Cap, Green LED Module	Plastic	D7PP3PN3GHS*
Operator Head, Red Lens Cap, Red LED Module	Plastic	D7PP4PN3RHS*



## Pilot Lights 240V AC

Description	Coupling Plate material	Catalogue No.
Operator Head, Green Lens Cap, Green LED Module	Plastic	D7PP3PN7GHS*
Operator Head, Red Lens Cap, Red LED Module	Plastic	D7PP4PN7RHS*



## Selector Switch

Description	Contact Blocks	Keyed	Coupling Plate material	Catalogue No.
Operator Head (2-Position, Maintained)	1N/O	No	Plastic	D7PSM22PX10HS
Operator Head (3-Position, Maintained)	2N/O	No	Plastic	D7PSM32PX20HS
Operator Head (2-Position, Maintained)	1N/O	Yes	Plastic	D7PKM21PX10HS



## Emergency Stop Operator 22.5mm

Description	Contact Blocks	Coupling Plate material	Catalogue No.
Operator Head 30mm (Twist-to-Release)	1N/C	Plastic	D7PMT34PX01HS*
Operator Head 40mm (Twist-to-Release)	1N/C	Plastic	D7PMT44PX01HS*

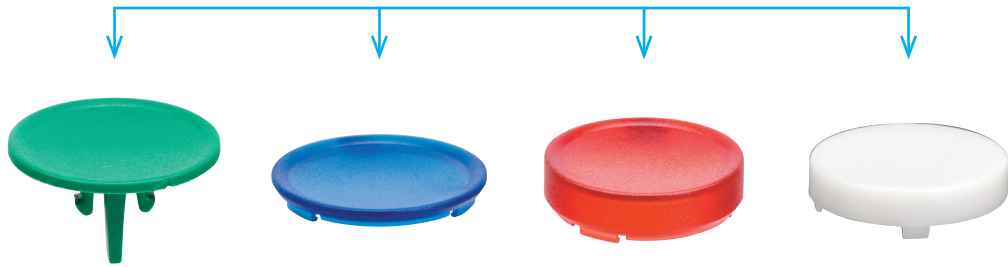


\* IP69K rating

## Section 2: Components

### Inserts / Lens

Refer to page 9



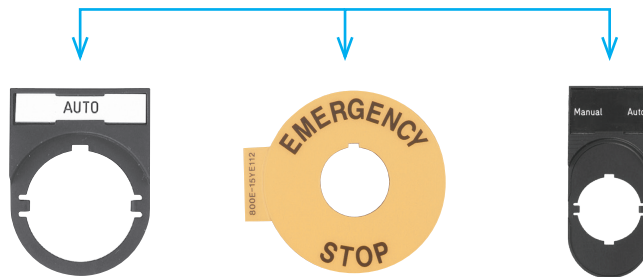
### Operators

Refer to pages 10-11



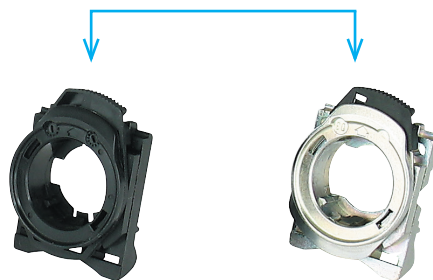
### Legend Plates (optional)

Refer to pages 12-13



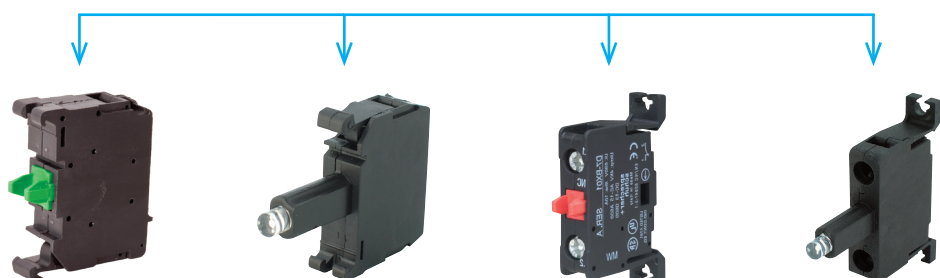
### Coupling Plates (Plastic or Metal)

Refer to page 14



### Contact Blocks & Lamp Modules

Refer to page 14





## Section 2: Components

### Colour Inserts and Lens

- For standard and extended pushbutton operators and pilot lights
- Each component supplied separately



#### Coloured inserts non-illuminated cap

Description	To suit flush and guarded operator Catalogue No.	To suit extended operator Catalogue No.	To suit flush latched operator Catalogue No.
White	D7-AF1	D7-AE1	D7-AFA1
Black	D7-AF2	D7-AE2	D7-AFA2
Green	D7-AF3	D7-AE3	D7-AFA3
Red	D7-AF4	D7-AE4	D7-AFA4
Yellow	D7-AF5	D7-AE5	D7-AFA5
Blue	D7-AF6	D7-AE6	D7-AFA6
Start "green"	D7-AF301	-	-
Stop "red"	D7-AF402	-	-
Reset "blue"	D7-AF6CE186	-	-



D7-AE5 (extended cap)



D7-AF3 (flush cap)



D7-ALF6 (latched)

#### Illuminated lens cap and pilot light lenses

Description	To suit flush, guarded and latching operator Catalogue No.	To suit extended operator Catalogue No.	To suit pilot light operator Catalogue No.
Green	D7-ALF3	D7-ALE3	D7-AP3
Red	D7-ALF4	D7-ALE4	D7-AP4
Amber	D7-ALF0	D7-ALE0	D7-AP0
Yellow	D7-ALF5	D7-ALE5	D7-AP5
Blue	D7-ALF6	D7-ALE6	D7-AP6
Clear	D7-ALF7	D7-ALE7	D7-AP7



D7-ALE4 (extended)



D7-AP5 (pilot light)



D7-AD2



D7-AD4



D7-AD3

#### Diffuser for illuminated pushbuttons and pilot lights

Description	To suit flush/guarded operator Catalogue No.	To suit extended guarded operator Catalogue No.	To suit pilot light operator Catalogue No.
Spare lens diffuser	D7-AD2	D7-AD4	D7-AD3

## Section 2: Components

### Operator Head

#### Momentary pushbutton

Description		Non-illuminated plastic Catalogue No.	Non-illuminated Metal Catalogue No.	Illuminated Plastic Catalogue No.	Illuminated Metal Catalogue No.
Operator only	No insert	D7P-F9**	D7M-F9	D7PL-F9*	D7ML-F9
	White/clear insert	D7P-F1**	D7M-F1	D7PL-F7*	D7ML-F7
	Black insert	D7P-F2**	D7M-F2	-	-
	Green insert	D7P-F3**	D7M-F3	D7PL-F3*	D7ML-F3
Operator with	Red insert	D7P-F4**	D7M-F4	D7PL-F4*	D7ML-F4
	Blue insert	D7P-F6**	D7M-F6	D7PL-F6*	D7ML-F6
	Green 'start' insert	D7P-F301**	D7M-F301	-	-
	Red 'stop' insert	D7P-F402**	D7M-F402	-	-



D7P-F301

#### Extended Inserts

Operator only	No insert	D7P-E9***	D7M-E9	D7PL-E9*	D7ML-E9
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#### Latching

Operator only	No insert	D7P-FA9**	D7M-FA9	D7PL-FA9*	D7ML-FA9
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### Emergency Stop Operators

#### Mushroom head

Description	Non-illuminated plastic Catalogue No.	Non-illuminated Metal Catalogue No.	Illuminated Plastic Catalogue No.	Illuminated Metal Catalogue No.
40mm red operator	D7P-MT44*	D7M-MT44	D7P-LMT44*	D7M-LMT44
60mm red operator	D7P-MT64*	D7M-MT64	D7P-LMT64*	D7M-LMT64



D7P-MT44

\* IP69K rating

\*\* IP69K rating when used with a protective boot (D7-AB7)

\*\*\* IP69K rating when used with protective boot (D7-ABE7)

## Section 2: Components

### Pilot Light Head

#### Momentary pushbutton

Description	Plastic Catalogue No.	Metal Catalogue No.
Pilot light with clear lens	D7P-P7*	D7M-P7
Pilot light with green lens	D7P-P3*	D7M-P3
Pilot light with red lens	D7P-P4*	D7M-P4
Pilot light with amber lens	D7P-P0*	D7M-P0
Pilot light with yellow lens	D7P-P5*	D7M-P5
Pilot light with blue lens	D7P-P6*	D7M-P6



D7M-P4



D7P-P3

### Selector Switch Head

#### Short Lever: 2-position

Description		Non-illuminated plastic Catalogue No.	Non-illuminated metal Catalogue No.
Maintained stayput 60°		D7P-SM22	D7M-SM22
Spring return from left 60°		D7P-SL22	D7M-SL22
Spring return from right 60°		D7P-SR22	D7M-SR22

#### Short lever: 3-position

Description	Non-illuminated plastic Catalogue No.	Non-illuminated metal Catalogue No.
Maintained stayput 60°	D7P-SM32	D7M-SM32
Spring return from left 60°	D7P-SL32	D7M-SL32
Spring return from right 60°	D7P-SR32	D7M-SR32
Spring return from left & right 60°	D7P-SB32	D7M-SB32



D7M-SL32

#### 2-Position keyed

Description	Key removable	Plastic standard key 3825 Catalogue No.	Metal Standard key 3825 Catalogue No.
Maintained stayput 60°	Left	D7P-KM21	D7M-KM21
	Right	D7P-KM22	D7M-KM22
	Both	D7P-KM23	D7M-KM23
Spring return from left 60°	Right	D7P-KL22	D7M-KL22
Spring return from right 60°	Left	D7P-KR21	D7M-KR21



D7P-KM21

\* IP69K rating

## Section 2: Components

### Legend Plates

Dimensions	Component	Description	Catalogue No.
		Legend plate frame 30 x 40mm	D7-110
		Legend plate frame 30 x 50mm	D7-120
		Legend plate frame (for use with multi-function operator) 30 x 70mm	D7-200
		Legend plate (blank) 30 x 40mm	D7-34WE100 D7-34BE100 D7-34AE100
		Legend plate (blank) 30 x 50mm	D7-35WE100 D7-35BE100 D7-35AE100
		Legend plate - for D7-110 <sup>1)</sup> Legend plate frame 30 x 40mm	D7-17WE100 D7-17BE100 D7-17AE100
		Legend plate - for D7-120 & D7-200 <sup>2)</sup> Legend plate frame 30 x 50mm	D7-18WE100 D7-18BE100 D7-18AE100
		Legend plate - for D7-400 <sup>1)</sup> Legend plate frame	D7-42WE100 D7-42BE100 D7-42AE100

1) Supplied blank  
2) Refer to NHP for engraving options

## Section 2: Components

### Legend Plates

Printed Text			Plastic black, inscription white, for legend plate carrier D7-110 30 x 40 mm <sup>1)</sup>	Plastic black, inscription white, for legend plate carrier D7-120 30 x 50 mm <sup>2)</sup>	Aluminium, inscription black, legend plate carrier D7-200 30 x 70 mm <sup>3)</sup>
close			D7-17BE107	D7-18BE107	–
open			D7-17BE170	D7-18BE170	–
down			D7-17BE110	D7-18BE110	–
up			D7-17BE223	D7-18BE223	–
fast			D7-17BE114	D7-18BE114	–
slow			D7-17BE201	D7-18BE201	–
foward			D7-17BE120	D7-18BE120	–
reverse			D7-17BE188	D7-18BE188	–
high			D7-17BE129	D7-18BE129	–
lower			D7-17BE1 52	D7-18BE152	–
raise			D7-17BE182	D7-18BE182	–
left			D7-17BE145	D7-18BE145	–
right			D7-17BE191	D7-18BE191	–
off			D7-17BE163	D7-18BE163	–
on			D7-17BE166	D7-18BE166	–
start			D7-17BE208	D7-18BE208	–
stop			D7-17BE212	D7-18BE212	–
I	O	auto	D7-17BE250	D7-18BE250	D7-30AE250
emergency stop			D7-17BE251	D7-18BE251	–
man	O	auto	D7-17BE238	D7-18BE238	D7-30AE238
on	off	auto	D7-17BE300	D7-18BE300	D7-30AE300
man		auto	D7-17BE301	D7-18BE301	D7-30AE301
forw	off	rev	D7-17BE261	D7-18BE261	D7-30AE261
forw		rev	D7-17BE303	D7-18BE303	D7-30AE303
up		down	D7-17BE224	D7-18BE224	D7-30AE224
off		on	D7-17BE165	D7-18BE165	D7-30AE165
stop		start	D7-17BE215	D7-18BE215	D7-30AE215
blank legend plate			D7-17BE100	D7-18BE100	–
high		low	D7-17BE130	D7-18BE130	–
jog		run	D7-17BE142	D7-18BE142	–
left		right	D7-17BE146	D7-18BE146	–
open		close	D7-17BE171	D7-18BE171	–
raise		lower	D7-17BE183	D7-18BE183	–
slow		fast	D7-17BE204	D7-18BE204	–
forward	stop	reverse	D7-17BE254	D7-18BE254	–
low	off	high	D7-17BE150	D7-18BE150	–
raise	off	lower	D7-17BE184	D7-18BE184	–

1) Legend plate size 29.8 x 8.8mm.

2) Legend plate size 29.8 x 18.7mm.

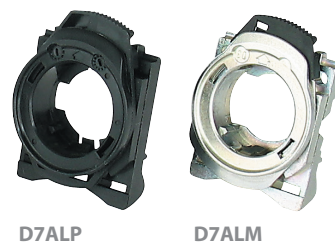
3) Not all variations stocked. Can be engraved by NHP to customer order.

## Section 2: Components

### Contact Blocks and Coupling Plates

#### Coupling plates

Description	Catalogue No.
Plastic coupling plate	D7-ALP
Metal coupling plate	D7-ALM



#### Contact Blocks

Description	Actuator colour	Panel mount Catalogue No.	DIN/Base mount Catalogue No.
Open contact block	Green	D7-X10	D7-BX10
Closed contact block	Red	D7-X01	D7-BX01
Open early make	Green	D7-X10E	-
Closed late break	Brown	D7-X01L	D7-BX01L
Closed early break	Brown	D7-X01B	-
Open low voltage (quadfurcated gold contacts)	Blue	D7-X10V	-
Closed low voltage (quadfurcated gold contacts)	Blue	D7-X01V	-
"Auto break" safety contact block for emergency stop operators	Yellow	D7-X01S	-



D7-BX01



D7-X10V

Colour coded actuator



D7-X01S

#### Lamp Modules

Description	Colour	Voltage	Panel mount screw terminal Catalogue No.	Base/DIN mount screw terminal Catalogue No.
Full voltage lamp module (without Ba9s lamp) <sup>1)</sup>	-		D7-D0C	-
	Green	24 V DC	D7-N3G	D7-BN3G
	Red		D7-N3R	D7-BN3R
White	D7-N3W		D7-BN3W	
Integrated LED module	Green	120 V AC	D7-N5G	D7-BN5G
	Red		D7-N5R	D7-BN5R
	White		D7-N5W	D7-BN5W
	Green	24 - 120 V AC / DC	D7-NUG	-
	Red		D7-NUR	-
	White		D7-NUW	-
	Green		240 V AC	D7-N7G
Red	D7-N7R	D7-BN7R		
White	D7-N7W	D7-BN7W		



D7-D0C



D7-N5G










D7-BN7R

## Section 2: Components

### Accessories and Spares


#### Contact Blocks

Item	Description	Housing	Catalogue No.
	Blanking plug Used to plug 22.5mm holes	Black plastic	D7-N2
	Locking cover For use on flush, extended, guarded and latched pushbuttons, short knob selector switches	-	D7-AL01
	40 mm protective ring For use on 2 position push-pull operators only	-	D7-AMRG
	Push button holder For securing 22.5mm control devices. Din rail or screw down mounting. Box of 10.	-	PBH01
	Mounting hole adaptor Allows a 22.5mm pushbutton operator to be installed into a panel with existing 30.5 mm mounting hole	-	D7-AHA1
	Lock nuts For fixing front elements	Plastic	D7-ARP
	For flush pushbuttons	Clear Silicone	D7-AB7
	For extended pushbuttons	Clear Silicone	D7-ABE7
	For multi-function operators – 2 Position	Clear Silicone	D7-AUB2
	For multi-function operators – 3 Position	Clear Silicone	D7-AUB1


## Section 2: Components

### Accessories and Spares


#### Incandescent lamps for pilot lights

Item	Description	Voltage	Typical current	1.2 Watt Catalogue No.	2 Watt Catalogue No.
	BA9S style for full voltage lamp block D7-DOC <sup>1)</sup>	6V	150mA	BA9S-I3-6V-1.2W	-
		12V	80mA	BA9S-I3-12V-1.2W	BA9S-I3-12V-2W
		24V	70mA	BA9S-I3-24V-1.2W	BA9S-I3-24V-2W
		36V	60mA	BA9S-I3-36V-1.2W	BA9S-I3-36V-2W
		48V	50mA	-	BA9S-I3-48V-2W
		60V	22mA	BA9S-I3-60V-1.2W	BA9S-I3-60V-2W
		130V	-	-	BA9S-I3-130V-2.6W

#### Neon lamps

Item	Description	Voltage	Typical current	Catalogue No.
	BA9S style for full voltage lamp block D7-DOC	110V...127V Clear	22mA	BA9S-CN3-110V
		220V...240V Clear	22mA	BA9S-CN3-240V

#### LED lamp BA9s style

Item	Description	Voltage	Typical current (mA)	Multi-cluster ultra bright Style Catalogue No. <sup>2)</sup>
	20,000 hour life Ba9s style for full voltage lamp block D7-DOC	8V AC/DC	72	BA9S- _ -8VACDC
		12V AC/DC	20	BA9S- _ -12VACDC
		24V AC/DC	20	BA9S- _ -24VACDC
		48V AC/DC	20	BA9S- _ -48VACDC
		110 - 130V AC/DC	4.8	BA9S- _ -130VACDC
		240V AC/DC	2.5	BA9S- _ A240VACDC

1) Maximum direct voltage 130V

2) Add colour code (shown above) to Catalogue No.  
White (WL), red (RL), green (GL), yellow (YL), blue (BL), e.g. BA9S-WL-8VACDC



## Section 2: Components

### Enclosures with 22.5mm cut-outs

#### Low profile, bare enclosures for single level rear elements

- Metal or Plastic construction
- IP66 protection to IEC 529, Water Jet to SEV 3047
- Enclosures supplied with 22.5mm cut-outs <sup>1)</sup>
- Supplied with two knockout M16/M20mm cable entries
- Suitable for mounting all D7 front elements
- Each enclosure accepts up to three single depth rear elements (contact / lamp blocks), with either panel (latch mount) or base mounting
- Supplied individually packaged



D7-N2



D7-3PM

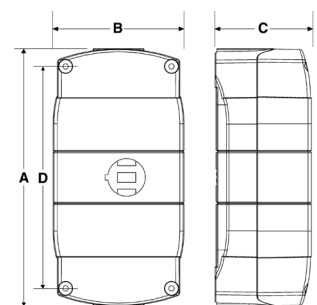


D7-5MM

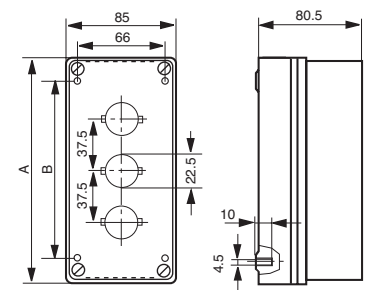
#### Enclosure

Description	No. of cut-outs	Plastic enclosure Catalogue No. <sup>1) 2) 3) 4)</sup>	Metal enclosure Catalogue No. <sup>1) 2) 3) 4)</sup>
Yellow enclosure	1	D7-1YM	D7-1MYM
	1	D7-1PM	D7-1MM
	2	D7-2PM	D7-2MM
Grey enclosure	3	D7-3PM	D7-3MM
	4	D7-4PM	–
	5	–	D7-5MM
	6	D7-6PM	–

#### Dimensions



Plastic



Metal (Aluminium)

Catalogue No.	Holes	A	B	C	D
D7-1PM	1	85	89	58	59
D7-2PM	2	124	79	48	103
D7-3PM	3	155	79	48	133
D7-4PM	4	186	79	48	165
D7-6PM	6	248	87	55	224

Catalogue No.	Holes	A	B
D7-1MM	1	99	62
D7-2MM	2	137	100
D7-3MM	3	174	137
D7-5MM	5	249	212

#### Notes

- 1) Operators and rear elements supplied separately.
- 2) Trim washer required if legend not used.
- 3) Use blank plug D7N2 for unrequired mounting holes.
- 4) Suitable for base mount or single panel mount contact blocks.

The NHP logo consists of the letters 'NHP' in a bold, white, sans-serif font, centered within a dark blue square background.

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