












Complete Assembled Stations

IMPORTANT Supplied with 19.05 mm (3/4 in.) dead end conduit entry (Cat. No. 800H-1HZX7)

	Operator	Contact Symbol		Contact Action	Legend Marking	Lever Type Actuator	Component Type Buttons
						Cat. No. ⁽¹⁾ ⁽²⁾	Cat. No. ⁽²⁾ ⁽³⁾
 Cat. No. 800H-1HA7	One Push Button		1 N.O. 1 N.C.	Momentary	STOP	800H-1HA7	800H-1HA7P
					START	800H-1HB7	800H-1HB7P
					JOG	800H-1HJ7	800H-1HJ7P
					No Legends	800H-1HX7	800H-1HX7P
 Cat. No. 800H-2HA7P	Two Push Buttons		1 N.O. 1 N.C. Each Button	Momentary	START STOP	800H-2HA7	800H-2HA7P
					FOR REV	800H-2HB7	800H-2HB7P
					RAISE LOWER	800H-2HD7	800H-2HD7P
					OPEN CLOSE	800H-2HF7	800H-2HF7P
					No Legends	800H-2HX7	800H-2HX7P
 Cat. No. 800H-2HAM7	2-position Selector Switch		1 N.O. 1 N.C.	Maintained	START STOP	800H-2HAM7	—
					ON OFF	800H-2HCM7	800H-R2HC7
					OPEN CLOSE	800H-2HGM7	800H-R2HG7
					RUN STOP	800H-2HJM7	—
					HAND AUTO	800H-2HLM7	800H-R2HA7
					No Legends	800H-2HXM7	800H-R2HX7
 Cat. No. 800H-R3HA7	3-position Selector Switch		1 N.O. 1 N.C.	—	HAND OFF AUTO	—	800H-R3HA7
					No Legends	—	800H-R3HX7
 Cat. No. 800H-2HAD10R7	One Pilot Light, Dual Push Buttons		120V AC/DC Full Volt./Red	—	START STOP	—	800H-2HAD10R7
			1 N.O. 1 N.C.		Marking other than listed - consult your local Allen-Bradley distributor	—	800H-2HXD10R7

- (1) Operators have integral padlocking attachment.
- (2) Supplied with standard shallow contact blocks. For stations with sealed switch contacts, change Bulletin number from 800H to 800R. A deep enclosure is required.
- (3) STOP is extended red, START is flush green, all others are flush black.

Momentary Contact Push Buttons Units

Non-illuminated Momentary Contact Push Button Units



Flush Head Unit
Cat. No. 800H-AP1A



Extended Head Unit
Cat. No. 800H-BP6B



Mushroom Head Unit
Cat. No. 800H-DP6A

800 H - AP 1 A
 a b c d e

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Operator Type	
Code	Description
AP	Flush head
BP	Extended head
DP	Mushroom head
DPX	Mushroom head (less color cap)

c	
Color Cap	
Code	Description
Blank	Used only when operator type Code DPX (Table b) is ordered
1	Green
2	Black
3	Orange
4	Gray
6	Red
7	Blue
9	Yellow

d	
Special Mushroom Head ⁽¹⁾	
Code	Description
Blank	No special head
J	Jumbo mushroom head — plastic
L	Jumbo mushroom head — metal

e	
Contact Blocks ⁽²⁾	
Code	Description
Standard	
Blank	No contacts
D1	1 N.O.
D2	1 N.C.
D5	1 N.O. (Mini)
D6	1 N.C. (Mini)
A2	2 N.O.
A4	2 N.C.
A	1 N.O. - 1 N.C.
B	2 N.O. - 2 N.C.
H	3 N.O. - 3 N.C.
C	4 N.O. - 4 N.C.

e, continued	
Contact Blocks ⁽²⁾	
Code	Description
PenTUFF™ (Low Voltage)	
D1V	1 N.O.
D2V	1 N.C.
AV	1 N.O. - 1 N.C.
BV	2 N.O. - 2 N.C.
HV	3 N.O. - 3 N.C.
CV	4 N.O. - 4 N.C.

(1) Special mushroom head options only apply to mushroom head operator type code DP (Table b).

(2) For sealed switch and Logic Reed contact blocks, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

Dual Momentary Contact Push Button Units



800 H - DP H 16 AAXX 64
 a b c d e f

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Operator Type	
Code	Description
DP	Dual push button

c	
Mounting	
Code	Description
H	Horizontal
B	Vertical

d	
Button Color	
Code	Description
1	Left green flush/right red extended
2	Left black flush/right black flush

e		
Contact Blocks ⁽¹⁾		
Code	Contact Arrangement	
	Left button (horizontal) Top button (vertical)	Right button (horizontal) Bottom button (vertical)
AAXX	1 N.O. - 1 N.C.	1 N.O. - 1 N.C.
AAAA	2 N.O. - 2 N.C.	2 N.O. - 2 N.C.

f		
Marking ⁽¹⁾		
Code	Contact Arrangement	
	Left button (horizontal) Top button (vertical)	Right button (horizontal) Bottom button (vertical)
Blank	No mark specified	No mark specified
64	START	STOP
50	ON	OFF
51	FORWARD	REVERSE
57	OPEN	CLOSE
66	UP	DOWN
99 ⁽²⁾	Marking specified	Marking specified

(1) For sealed switch and Logic Reed contact blocks, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

(2) To order with special marking, please specify; seven characters maximum per button, single line only.

Illuminated Momentary Contact Push Button Units



800 H - PPB H 16 M _____
 a b c d e f

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Power Module Type	
Code	Description
PPB	Transformer (or dual-input)
QPB	Full voltage/Universal

c	
Illumination Options	
Code	Description
Blank	Incandescent
B	LED (light-emitting diode)
Dual-input	
D	Diode type, incandescent ⁽¹⁾
T	Transformer — relay type, incandescent
TH	Transformer — relay type, LED

d	
Voltage	
Code	Description
Transformer	
16	120V AC, 50/60 Hz
26	240V AC, 50/60 Hz
46	480V AC, 50/60 Hz
56	600V AC, 50/60 Hz
Full Voltage — Incandescent	
24	24V AC/DC
10	120V AC/DC
20	240V AC/DC
Universal — LED	
2	12...130V AC/DC
Dual-input	
16	120V AC
24	24V AC/DC ⁽⁴⁾

e	
Lens Color	
Code	Description
Blank	No lens, with standard contacts 1 N.O. - 1 N.C.
X	No lens is provided with any contacts ordered other than standard 1 N.O. - 1 N.C.
M	Multi-color ⁽³⁾

f	
Contact Blocks ⁽²⁾	
Code	Description
Standard	
Blank	1 N.O. - 1 N.C.
X	No contacts
D1	1 N.O.
D2	1 N.C.
A2	2 N.O.
A4	2 N.C.
PentUFF (Low Voltage)	
D1V	1 N.O.
D2V	1 N.C.
AV	1 N.O. - 1 N.C.

- (1) Diode type dual-input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs and neon indicators.
- (2) For sealed switch and Logic Reed contact blocks, consult your local Rockwell Automation sales office or Allen-Bradley distributor.
- (3) Multi-color insert packet includes amber, blue, green, red, and white.
- (4) Dual-input diode only.

Push Pull Units

2-position, Non-illuminated



2-position Push-Pull
Cat. No. 800H-FPX6A5



800 H - FPX 1 A1
 a b c d e

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Operator Type	
Code	Description
FPX	Push-pull unit

c	
Head Type	
Code	Description
Blank	Mushroom head
J	Jumbo mushroom head ⁽¹⁾

d	
Color Cap	
Code	Description
Blank	No cap
1	Green
2	Black
4	Gray (silver)
6	Red
7	Blue
9	Yellow (gold)

e			
Contact Blocks			
Code	Operator Position		Description
			
	Out	In	
Standard			
Blank	—	—	No contacts
A1	0 X	X 0	1 N.O. - 1 N.C.L.B. ⁽²⁾
A5	X X	0 0	2 N.C.L.B. ⁽²⁾
D1	0	X	1 N.O.
D4	X	0	1 N.C.L.B. ⁽²⁾
PenTUFF (Low Voltage)			
D1V	0	X	1 N.O.
AV	0 X	X 0	1 N.O. - 1 N.C.
Note: X = Closed/O = Open			

(1) Not valid with color cap option code Blank (Table d)

(2) Normally closed late break contact. When button is pushed from the OUT to the IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN to the OUT position, the electrical contacts change state before the mechanical detent occurs.

3-position, Non-illuminated

800 H - FPX M 1 A7
 a b c d e f






3-Position Push-Pull
 Cat. No. 800H-FPXM6A7

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel




b	
Operator Type	
Code	Description
FPX	Push-pull unit

c	
Head Type	
Code	Description
Blank	Mushroom head
J	Jumbo mushroom head ⁽¹⁾

(1) Not valid with color cap option code Blank (Table e)

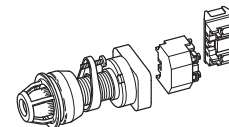
d			
Operator Function			
Code	Operator Position		
			
	Out	Center	In
M	Momentary	Maintained	Maintained
N	Momentary	Maintained	Momentary

e	
Color Cap	
Code	Description
Blank	No cap
1	Green
2	Black
4	Gray (silver)
6	Red
7	Blue
9	Yellow (gold)

f				
Contact Blocks				
Code	Operator Position ⁽¹⁾			Description
				
	Out	Center	In	
Standard				
Blank	—		—	No contacts
A	0 X	0 0	X 0	1 N.O. - 1 N.C.
A1	0 X	0 X	X 0	1 N.O. - 1 N.C.L.B.
A7	X X	0 X	0 0	1 N.C. - 1 N.C.L.B.
B6	X X	0 0	X 0	2 N.C. - 2 N.C.L.B.
PenTUFF (Low Voltage)				
AV	0 X	0 0	X 0	1 N.O. - 1 N.C.

(1) X = Closed/0 = Open

2- and 3-position, Illuminated



800 H - FPX PH 16 M A1
 a b c d e f g

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Operator Type	
Code	Description
FPX	Push-pull unit

c	
Operator Function	
Code	Description
2-position	
Blank	Push-pull

c, continued			
Operator Function			
Code	Operator Position		
3-position			
	Out	Center	In
M	Momentary	Maintained	Maintained
N	Momentary	Maintained	Momentary

d	
Illumination Options	
Code	Description
Transformer	
P	Incandescent
PH	LED
Full Voltage	
Q	Incandescent
QH	Universal LED
Dual-input	
D	Dual-input — diode ⁽³⁾
DT	Dual-input — transformer relay
DTH	Dual-input transformer — relay LED

e	
Voltage	
Code	Description
Transformer	
16	120V AC, 50/60 Hz
26	240V AC, 50/60 Hz
46	480V AC, 50/60 Hz
56	600V AC, 50/60 Hz
Full Voltage — Incandescent	
24	24V AC/DC
10	120V AC/DC
20	240V AC/DC
Universal — LED	
2	12...130V AC/DC
Dual-input	
16	120V AC
24	24V AC/DC ⁽⁴⁾

f	
Color Cap	
Code	Description
Blank	No lens with no contacts
X	No lens with contacts
M	Multi-color ⁽²⁾

g	
Contact Blocks	
Code	Description
Standard	
Blank	No contacts
D1	1 N.O.
D4	1 N.C.L.B. ⁽¹⁾
A	1 N.O. - 1 N.C.
A1	1 N.O. - 1 N.C.L.B. ⁽¹⁾
A2	2 N.O.
A5	2 N.C.L.B.
A7	1 N.C. - 1 N.C.L.B. ⁽¹⁾

g, continued	
Contact Blocks	
Code	Description
PentUFF Low Voltage	
D1V	1 N.O.
D2V	1 N.C.
AV	1 N.O. - 1 N.C.
Logic Reed	
D1R	1 N.O.
D2R	1 N.C.
AR	1 N.O. - 1 N.C.
A2R	2 N.O.
A4R	2 N.C.

- (1) Normally closed late break contact. When button is pushed from the OUT to the IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN to the OUT position, the electrical contacts change state before the mechanical detent occurs.
- (2) Multi-color insert packet includes amber, blue, green, red, and white.
- (3) Diode type dual-input provides circuit isolation via opposing diodes. Not recommended for use with solid-state outputs and neon indicators.
- (4) Dual-input diode only.

Table 8 - Target Selection

g Code	2-position ⁽¹⁾		Contact Description	3-position ⁽¹⁾			g Code
A, AV, R	0 X	X 0	N.O. N.C.	0 X	0 0	X 0	A, AV, AR
A1	0 X	X 0	N.O. N.C.L.B.	0 X	0 X	X 0	A1
A2	0 X	0 X	N.O. N.O.	— —	— —	— —	—
A5	X 0	X 0	N.C.L.B. N.C.L.B.	— —	— —	— —	—
—	— —	— —	N.C. N.C.L.B.	X X	0 X	0 0	A7
D1, D1V, D1R	0	X	N.O.	—	—	—	—
D4	X	0	N.C.L.B.	—	—	—	—

(1) X = Closed/O = Open

Selector Switch Units

2-position, Non-illuminated



Standard Knob Operator
Cat. No. 800H-HP2KB6AXXX



Knob Lever Operator
Cat. No. 800H-HP17KB6AXXX



Metal Wing Lever Operator
Cat. No. 800H-HP11KBAXXX

800	H	—	HP	A	2	KB6	AXXX	(Knob/Wing Lever)
	a		b	c	d	e	f	
800	H	—	HP	31		KB6	AXXX	(Cylinder Lock)
	a		b	c ₁	d ₁	e	f	

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Number of Positions	
Code	Description
HP	2-position

c	
Knob Insert Colors ⁽¹⁾	
Code	Description
Blank	White
X	Packet of colored inserts ⁽²⁾
Metal Wing Lever Colors	
A	Red
Blank	Gray

c ₁	
Key Removal Position	
Code	Description
Maintained	
31	Key removal — left
32	Key removal — right
33	Key removal — both
Spring Return from Left	
42	Key removal — right ⁽³⁾
Spring Return from Right	
48	Key removal — left

d	
Operator Type and Function	
Code	Description
Standard Knob	
2	Maintained
4	Spring return from left ⁽³⁾
5	Spring return from right
Knob Lever	
17	Maintained
18	Spring return from left ⁽³⁾
19	Spring return from right
Metal Wing Lever	
11	Maintained
15	Spring return from left ⁽³⁾
16	Spring return from right

- (1) Each standard and knob lever operator is factory-assembled with a white insert. Other colors are available, factory-assembled, if ordered in quantities of 10 or more.
- (2) One insert of each color (blue, green, orange, red, and yellow).
- (3) Target tables are reversed.

d ₁			
Optional Keys			
Code	D Series Key No.	Code	D Series Key No.
Blank	D018 (std. key)	15	T112
03	D020	16	T115
04	D025	17	T324
05	D335	18	T382
06	D429	19	T404
07	D461	20	T171
08	D111	21	T484
09	D587	22	T547
10	D682	23	T569
11	D713	24	T692
12	D900	25	T752
13	D992	26	T178
14	D118		

e	
Cam Options	
Code	Description
KB6	Cam for maintained operators
KL8	Cam for spring return operators

f			
Contact Blocks			
Code	Contact Config.	2-position ⁽¹⁾	
Standard			
Blank	No contacts	—	—
DXXX	1 N.O.	0	X
EXXX	1 N.C.	X	0
MXXX	2 N.O.	0	X
NXXX	2 N.C.	X	0
AXXX	1 N.O. - 1 N.C.	0	X
		X	0
AAXX	2 N.O. - 2 N.C.	0	X
		X	0
		0	X
		X	0

f, continued			
Contact Blocks			
Code	Contact Config.	2-position	
PenTUFF™ (Low Voltage)			
HXXX	1 N.O.	0	X
UXXX	1 N.C.	X	0
FXXX	1 N.O. - 1 N.C.	0	X
		X	0
FFXX	2 N.O. - 2 N.C.	0	X
		X	0
		0	X
		X	0

(1) X = Closed/0 = Open

3-position, Non-illuminated



Standard Knob Operator
Cat. No. 800H-JP2KB7AXXX



Knob Lever Operator
Cat. No. 800H-JP17KB7AXXX



Metal Wing Lever Operator
Cat. No. 800H-JP11KB7AXXX

800	H	-	JP		2	KB7	AAXX	(Knob/Wing Lever)
	a		b	c	d	e	f	
800	H	-	JP	41		KB7	AAXX	(Cylinder Lock)
	a		b	c ₁	d ₁	e	f	

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Number of Positions	
Code	Description
JP	3-position

c	
Knob Insert Colors ⁽¹⁾	
Code	Description
Blank	White knob insert or cylinder lock operator
X	Packet of colored inserts ⁽²⁾
Metal Wing Lever Colors	
A	Red
Blank	Gray

- (1) Each standard and knob lever operator is factory-assembled with a white insert. Other colors are available, factory-assembled, if ordered in quantities of 10 or more.
- (2) One insert of each color (blue, green, orange, red, and yellow).

c ₁	
Cylinder Lock Operator Locking Position	
Code	Description
Maintained Position	
41	Left
42	Center
43	Right
44	All
45	Left and center
46	Right and left
47	Right and center
Spring Return from Left	
50	Center
52	Right
51	Right and center
Spring Return from Right	
69	Left
38	Center
73	Left and center
Spring Return from Both	
631	Center

d	
Operator Type and Function	
Code	Description
Standard Knob	
2	Maintained
4	Spring return from left
5	Spring return from right
91	Spring return from both
Knob Lever	
17	Maintained
18	Spring return from left
19	Spring return from right
20	Spring return from both
Metal Wing Lever ⁽¹⁾	
11	Maintained
15	Spring return from left
16	Spring return from right
141	Spring return from both

- (1) Wing levers are not suitable with KE7 cam code (Table 9).

d ₁	
Operator Type and Function	
Code	Key Number ⁽¹⁾
Blank	D018 (standard key)

- (1) See page 13 for additional key codes.

e	
Cam Options ⁽¹⁾	
Code	Description
KB7	Standard cam KB7
KA1	Cam KA1
KA7	Cam KA7

- (1) For more cam descriptions, see Table 9.

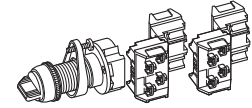
f	
Contact Blocks	
Code	Description
Blank	No contacts
AXXX	Two contact targets for a given cam as shown in the W (white side) column of Table 9.
AAXX	Two contact targets for a given cam as shown in the W (white side) column of Table 9 and 2 contact targets for the same cam as shown in the B (black side) column of Table 9. (One Cat. No. 800T-XA contact block per side. Two contact blocks total.)

Table 9 - Cam and Contact Block Functionality Table

Contact Block Suffix Code	Contact Block Side	Circuits	Cam Codes ⁽¹⁾																																				
			KB7 (Std.)	KA1	KA7	KC1	KC7	KD7	KE7	KQ1	KQ7	KR1	KR7	KT1	KT7	KU7																							
	White	A	X	0	0	X	0	0	0	0	X	0	0	X	0	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	
		B	0	0	X	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
	Black	A	X	0	0	X	0	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
		B	0	0	X	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
	White	A	X	0	0	X	0	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
		B	0	0	X	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
	Black	A	X	0	0	X	0	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0
		B	0	0	X	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0	X	0	0

- (1) X = Closed, 0 = Open

4-position, Non-illuminated



800	H	—	NP		2	KF4	AAXX	(Knob/Wing Lever)
	a		b	c	d	e	f	
800	H	—	NP	31		KF4	AXXX	(Cylinder Lock)
	a		b	c ₁	d ₁	e	f	

a	
Barrel Type	
Code	Description
H	Standard barrel
HL	Long barrel

b	
Number of Positions	
Code	Description
NP	4-position

c	
Knob Insert Colors ⁽¹⁾	
Code	Description
Blank	White
X	Packet of colored inserts ⁽²⁾
Metal Wing Lever Colors	
A	Red
Blank	Gray

- (1) Each standard and knob lever operator is factory-assembled with a white insert. Other colors are available, factory-assembled, if ordered in quantities of 10 or more.
- (2) One insert of each color (blue, green, orange, red, and yellow).

c ₁	
Key Removal Position and Operator Function	
Code	Description
Maintained	
31	Key removal position 1
32	Key removal position 2
33	Key removal position 3
34	Key removal position 4
61	Key removal all positions
Spring Return from Position 1 to 2	
132	Key removal position 2
133	Key removal position 3
134	Key removal position 4
154	Key removal positions 2, 3, and 4
Spring Return from Position 4 to 3	
231	Key removal position 1
232	Key removal position 2
233	Key removal position 3
251	Key removal positions 1, 2, and 3

d	
Operator Type and Function	
Code	Description
Standard Knob	
2	Maintained
3	Spring return position 1 to 2
9	Spring return from position 4 to 3
Knob Lever	
17	Maintained
29	Spring return from position 1 to 2
30	Spring return from position 4 to 3
Metal Wing Lever	
11	Maintained
13	Spring return from position 1 to 2
14	Spring return from position 4 to 3

d ₁	
Optional D-Series Keys ⁽¹⁾	
Code	Description
Blank	D018 (standard key)

- (1) Devices are supplied with two keys. Replacement part number for standard D018 key is X-181170.

e	
Cam Options	
Code	Description
KF4	F cam (standard)
KG4	G cam
KK4	K cam
KM4	M cam
KP4	P cam
KH4	Overlapping cam

f	
Contact Blocks	
Code	Description
Blank	No contacts
AAXX	Two contact targets for a given cam as shown in the W (white side) column of Table 10 and two contact targets for the same cam as shown in the B (black side) column of Table 10. (One Cat. No. 800T-XA contact block per side. Two contact blocks total)
AAAA	Four contact targets for a given cam as shown in the W (white side) column of Table 10 and four contact targets for the same cam as shown in the B (black side) column of Table 10. (Two Cat. No. 800T-XA contact blocks per side. Four contact blocks total.)

Table 10 - Selector Switch Cam Targets

Contact Block Suffix Code	Contact Block Side	Circuits	Cam Codes ⁽¹⁾																									
			KF4				KG4				KK4 ⁽²⁾				KM4 ⁽²⁾				KP4				KN4 ⁽³⁾					
			↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻					
AAAA FFFF	↑ AAAA FFFF ↓	White	A	X	0	0	0	X	X	0	0	0	0	X	X	X	0	0	0	0	0	0	X	0	X	0	0	
			B	0	X	0	0	0	0	X	0	X	X	0	0	0	X	X	0	0	X	0	0	0	0	0	0	X
		Black	A	0	0	0	X	X	0	0	0	X	0	0	X	0	0	0	X	0	0	X	X	0	0	X	0	0
			B	0	0	X	0	0	0	0	X	0	X	X	0	0	X	0	0	X	0	0	0	X	0	0	0	0
	White	A	X	0	0	0	X	X	0	0	0	0	X	X	X	0	0	0	0	0	X	0	X	0	0	0	0	
		B	0	X	0	0	0	0	X	0	X	X	0	0	0	X	X	0	0	X	0	0	0	0	0	0	X	
		Black	A	0	0	0	X	X	0	0	0	X	0	0	X	0	0	0	X	0	0	X	X	0	0	X	0	0
			B	0	0	X	0	0	0	0	X	0	X	X	0	0	X	0	0	X	0	0	0	0	X	0	0	0

- (1) X = Closed, 0 = Open For additional targets and overlapping cams, see Publication 800T-2.8.
- (2) Not available with wing lever operator.
- (3) Overlapping cam.