



Type SA Color-Light Dwarf Signals
With Stepped Lenses

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Note: See foreword and ordering information at the beginning of this part.

Other color combinations than those shown below may be supplied if required.

Lamps are not included with signals complete and must be ordered separately.

Unless otherwise specified anchor bolts as shown will be furnished with signals complete.

Signals are designed to operate on the following voltages 4, 7.5-8, 10 and 12 volts d-c., however they may be equipped with an a-c. mechanism to operate on voltages as listed on Plate H2663.

For dwarf signals with compound lenses see Plate H2614. See Plate H2616 for dwarf signals arranged for socket mounting and signals mounted on junction box.

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
A	Type SA Color-Light Dwarf Signal Complete, three indication—red, yellow and green. Signal is equipped with a 6 $\frac{3}{8}$ " dia., 3 $\frac{3}{4}$ " focus lens and a 25 degree deflecting roundel. (This lens combination deflects a part of the main beam upward through an angle of 25 degrees)	
	Order must specify the following:	
	1—Voltage upon which signal is to operate if d-c. or frequency and both line and local voltages if a-c.	
	2—See Plate H2629 for various methods of bringing wires into signal and specify fittings required	
	3—If plug coupler is required same must be specified.	53050-10
A1	as above, except two indication—red and yellow.	53050-10
A2	same as Fig. A, except two indication—purple and yellow.	53050-10
B	Type SA Color-Light Dwarf Signal Complete, three indication—red, yellow and green. Signal is equipped with a 8 $\frac{3}{8}$ " dia. 5" focus, hot-spot lens and a 20 degree deflecting roundel. (This lens combination deflects a part of the main beam upward through an angle of 20 degrees).	
	Order must specify the following:	
	1—Voltage upon which signal is to operate if d-c. or frequency and both line and local voltages if a-c.	

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
	2—See Plate H2629 for various methods of bringing wires into signal and specify fittings required.	
	3—If plug coupler is required same must be specified.	53050-10
B1	as above, except two indication—red and yellow.	53050-10
B2	same as Fig. B, except two indication—purple and yellow.	53050-10
C	D-c. Mechanism Complete, for details and order references see Plates H2649 to H2655.	
C1	as above, except a-c. mechanism, for details and order references see Plate H2663.	
D	Slide Complete, for mechanism, includes studs for attaching to case	56421 Gr. 6
1	Case, housing for mechanism, having slide arrangement Fig. D, includes studs for cams of mechanism.	53071-16
		441-122
1a	as above, except for mechanism without slide arrangement Fig. D, includes stud for hasp and studs for cams of mechanism.	53071
		441-121
		441-122
2	Hood, as shown, for 6 $\frac{3}{8}$ " dia. lens.	49127-18
3	Screw, No. 10-32 x $\frac{1}{4}$ " rd. hd., for fastening hood to outer ring	2438-9
4	Outer Ring, as shown, for 6 $\frac{3}{8}$ " dia. lens.	43983-30
5	Adapter, as shown, for 6 $\frac{3}{8}$ " dia., deflecting roundel.	43983-31
6	Deflecting Roundel, 6 $\frac{3}{8}$ " dia., deflects part of main beam upward through an angle of 25 degrees. For Fig. A.	9238-60
6a	as above, except 25 degree spreadlite with close-up deflection	9238-65
7	Lens, 6 $\frac{3}{8}$ " dia., 3 $\frac{3}{4}$ " focus.	53119
8	Gasket, as shown, for 6 $\frac{3}{8}$ " dia. lens and roundel.	13014-56
9	Screw, $\frac{5}{16}$ "-18 x 1 $\frac{1}{2}$ " rd. hd., with lock washer, for fastening outer ring and adapter to case.	33287-8
		0623-1
10	Pin, $\frac{3}{8}$ " x 1 $\frac{3}{16}$ ", hinge for door.	730-33
11	Pin, $\frac{7}{16}$ " x 1 $\frac{1}{16}$ ", for fastening case to base.	730-21
12	Taper Pin, No. 2 x 1 $\frac{1}{4}$ ", for fastening stud Fig. 13 to case.	28349

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
13	Stud, for obtaining vertical adjustment of signal.....	980-10
14	Nut, $\frac{3}{4}$ "-10 hex., for adjusting stud.....	0272-1
15	Anchor Bolt, $\frac{3}{4}$ "-10 x 18", with sq. nut.....	36182
16	Washer, for anchor bolt.....	35703
17	Base, as shown, for mounting case.....	53070-5
18	Hasp, as shown, includes nut, with $\frac{1}{2}$ "-13 thread, for case having slide arrangement, Fig. D.....	9524 9525-6 7568
18a	as above, except has nut with $\frac{1}{2}$ "-24 thread, for case without slide arrangement, Fig. D.....	9524 9525 7568
19	Lock Latch, as shown, threaded $\frac{1}{2}$ "-13 for hasp nut, for case having slide arrangement Fig. D.....	53106-2
19a	as above, except $\frac{1}{2}$ "-13 thread, for case without slide arrangement Fig. D.....	53106-1
19b	same as Fig. 19a except with $\frac{1}{2}$ "-24 thread.....	53106
20	Door Complete, for case with slide arrangement Fig. D, includes gasket, latch, hasp and all riveted parts.....	53057 Gr. 3
20a	as above, except for case without slide arrangement Fig. D, includes gasket, latch, hasp and all riveted parts.....	53057 Gr. 1
25	Hood, as shown, for $8\frac{3}{8}$ " dia. lens.....	49127-29
26	Outer Ring, as shown, for $8\frac{3}{8}$ " dia. lens.....	43983-35
27	Screw, $\frac{5}{16}$ "-18 x $1\frac{3}{4}$ " rd. hd., with lock washer, for fastening outer ring and adapter to inner ring. For use with Fig. B.....	33287-13 0623-1
28	Adapter, as shown, for use in applying deflecting roundel, to $8\frac{3}{8}$ " dia. lens. For Fig. B.....	43983-3446
29	Inner Ring, as shown, for $8\frac{3}{8}$ " dia. lens.....	43983-4634
30	Screw, $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " rd. hd., with lock washer, for fastening inner ring to case. For Fig. B.....	33287-6 0623-1

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
31	Deflecting Roundel, $8\frac{3}{8}$ " dia., deflects part of main beam upward through an angle of 20 degrees. For Fig. B.	9238-38
32	Lens, hot-spot, $8\frac{3}{8}$ " dia., 5" focus, for Fig. B.	36733-7
33	Gasket, as shown, for $8\frac{3}{8}$ " dia. lens and roundel.	13014-57
34	Nut, $\frac{3}{4}$ "-10 hex., for adjusting stud.	646-3
35	Screw, $\frac{3}{8}$ "-16 x $\frac{5}{8}$ " hex. hd., with lock washer, for case.	{ 0395-4 19867-2
36	Nut, $\frac{3}{8}$ "-16 x $\frac{3}{8}$ " th. hex., with washer, for slide Fig. D.	{ 1156-2 19867-2