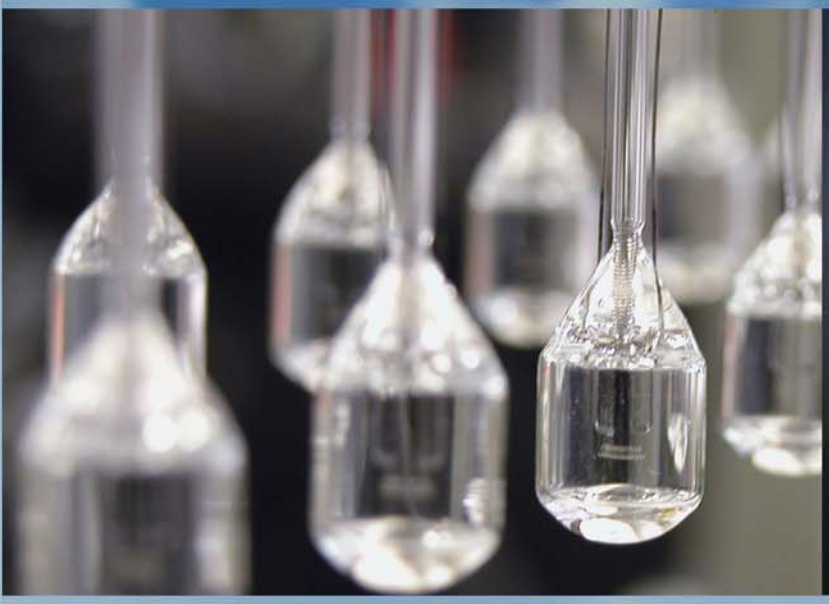




PORTABLE LIGHTING CATALOG

Focused Innovation.

WelchAllyn®

Rugged & Reliable Lighting Solutions for Your Portable Applications...

Welch Allyn—the respected name synonymous with innovative technologies—offers a full line of lamps, reflectors and optical components specifically designed for use in the most demanding portable lighting applications. Using our own proprietary manufacturing processes and equipment, we precision fabricate each Welch Allyn lamp to exacting specifications. We do this to ensure that each lighting solution you specify has been designed, engineered and manufactured to meet your specific needs for rugged durability, long life and high-performance operation.

Our lighting solutions are divided into two brands: HPX™ and Sōlarc®, each with their own lighting characteristics. In addition to being precision manufactured, each contains unique shock-resistant features, which make them excellent solutions for use in flashlights, bicycle lights and lights for off-road vehicles.

Compact...

Because of their compact design, both HPX and Sōlarc lighting solutions give you the flexibility and advantage to design smaller and more lightweight products without having to sacrifice illumination quality. The end result is a product that's more portable and convenient for your customers—and more profitable for your company.

Bright...

Our HPX lamp technology delivers color temperatures from 2,700˚K to 3,350˚K. Our Sōlarc technology meets your needs for sun-bright light of 5,500˚K to provide true color rendition and balance. Both Welch Allyn HPX and Sōlarc lamps are available with dichroic-coated reflectors that reduce projected infrared, and are also available with reflectors that are uniquely rich in the mid- and far-infrared. Lamps without reflectors are also available.

Efficient...

For low power consumption in portable lighting, our lamp solutions operate with a ballast that uses roughly one-third of the energy that is required to power lamps of similar light output. This makes them the ideal choice for bike lights, hand-held video cameras or any other battery-powered applications.

Precise...

To ensure that the light pattern requirements you set are met, both our HPX and Sōlarc lamps are designed, engineered and manufactured under the strictest conditions. For example, the precise location of the filament within each HPX lamp and the Sōlarc lamp's small source size of only 1.2 mm are just the first of many design elements built in to deliver the highest level of performance.

Rugged...

Both HPX and Sōlarc lamp solutions have been engineered to address the unique operating characteristics found within a wide variety of portable applications. This means that you now have the ability to specify the best portable lighting solution for your customers' products without having to sacrifice light output or durability.

Ready...

If you'd like more information about our HPX or Sōlarc lamp solutions or have a particular application that you'd like to discuss, please feel free to contact a member of our design/engineering staff at 315.685.4347. Their experience in solving the unique challenges of portable lighting design can help you find the best solution for your particular application.

General-Illumination Halogen Lamps–Miniature & Subminiature

(all dimensions in mm, all specifications are typical)

Part Number	Current (Amps)	Color Temp (°K)	MSCP	Envelope	Bulb Dia	Life Hours[1]	Lamp Fill	Lamp Config[2]	Spot Dia	Filament Length	Filament Width
2.6 Volts											
01208-U	0.85	2,840	0.95	Lens	5.10	4,000	Halogen-Krypton	R	3.56	–	–
01213-U	0.85	2,840	0.95	Hemispherical	5.10	4,000	Halogen-Krypton	R	–	0.8130	0.4320
2.8 Volts											
01284-U	0.59	3,280	1.70	Hemispherical	7.11	15	Halogen-Krypton	S	–	0.8130	0.2290
3.0 Volts											
01210-U	0.50	3,240	1.50	Hemispherical	5.10	20	Gas-Krypton	R	–	0.5590	0.2030
01215-U	0.50	3,240	1.50	Lens	5.10	15	Halogen-Krypton	R	3.56	–	–
3.5 Volts											
01207-U	0.57	3,050	1.65	Lens	5.10	400	Halogen-Krypton	R	3.56	–	–
01217-U	0.57	3,050	1.65	Hemispherical	5.10	400	Halogen-Krypton	R	–	0.8640	0.3050
01258-U	0.58	3,120	1.90	Lens	5.10	250	Gas-Krypton	R	3.56	–	–
01251-U	0.57	3,120	1.90	Hemispherical	5.10	250	Halogen-Krypton	R	–	0.8640	0.2790
01168-U	0.93	3,085	3.23	Lens	5.10	300	Gas-Krypton	R	3.56	1.1430	0.3810
01216-U	0.93	3,085	3.23	Hemispherical	5.10	300	Halogen-Krypton	R	–	1.1430	0.3810
3.65 Volts											
01093-U	0.98	3,240	4.00	Lens	5.10	45	Halogen-Krypton	R	3.56	–	–
01085-U	0.98	3,240	4.00	Hemispherical	5.10	45	Halogen-Krypton	R	–	0.8130	0.4060
4.0 Volts											
01195-U	1.06	3,075	4.60	Hemispherical	7.11	475	Halogen-Krypton	S	–	1.3208	0.4445
4.2 Volts											
01286-U	0.70	3,280	4.20	Hemispherical	7.11	20	Halogen-Krypton	S	–	1.0670	0.3050
01349-U	0.50	3,280	2.70	Lens	5.11	20	Halogen-Krypton	R	3.56	0.7112	0.2616
4.25 Volts											
01205-U	1.06	3,000	3.90	Lens	5.11	650	Halogen-Krypton	R	3.56	–	–
01218-U	1.06	3,000	3.90	Hemispherical	5.10	650	Halogen-Krypton	R	–	1.2700	0.5330

[1] Rated lamp life as tested under laboratory conditions. Actual life may vary depending on application and usage.

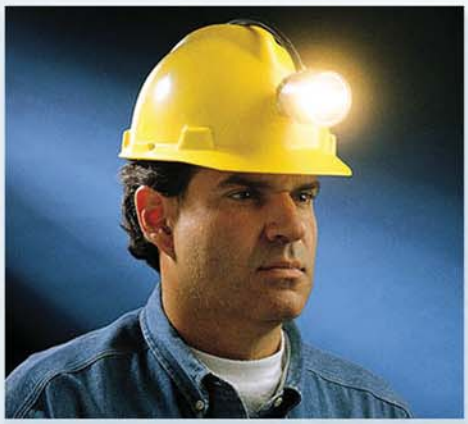
[2] Refer to Figure 1 for lamp configurations.

General-Illumination Halogen Lamps–Miniature & Subminiature

(all dimensions in mm, all specifications are typical)

Part Number	Current (Amps)	Color Temp (°K)	MSCP	Envelope	Bulb Dia	Life Hours	Lamp Fill	Lamp Config[1]	Spot Dia	Filament Length	Filament Width
4.7 Volts											
01183-U	3.85	3,340	32.70	Hemispherical	7.11	75	Halogen-Krypton	S	–	1.4220	0.9400
4.8 Volts											
01307-U	1.10	3,300	8.30	Hemispherical	7.11	20	Halogen-Krypton	S	–	1.1680	0.4390
01319-U	0.92	3,280	16.20	Hemispherical	7.11	35	Halogen-Krypton	S	–	1.7270	0.6220
01325-U	0.10	3,300	8.30	Hemispherical	7.11	20	Halogen-Krypton	S	–	1.1684	0.4394
5.0 Volts											
01206-U	0.97	2,800	3.30	Lens	5.10	10,000	Halogen-Krypton	R	3.56	–	–
01219-U	0.97	2,800	3.30	Hemispherical	5.10	10,000	Halogen-Krypton	R	–	1.5750	0.6860
01123-U	2.00	2,880	8.40	Hemispherical	7.11	5,000	Halogen-Krypton	R	–	2.0320	1.0670
01160-U	3.45	3,240	26.00	Hemispherical	7.11	550	Halogen-Krypton	S	–	2.1840	0.8130
5.5 Volts											
01288-U	0.70	3,280	6.30	Hemispherical	7.11	20	Halogen-Krypton	S	–	1.3720	0.3300
6.0 Volts											
01249-U	0.64	3,050	4.50	Hemispherical	5.10	500	Halogen-Krypton	R	–	1.3970	0.3810
01248-U	0.72	3,250	5.75	Lens	5.10	100	Halogen-Krypton	R	3.56	–	–
01112-U	1.00	3,255	9.50	Hemispherical	7.11	50	Halogen-Krypton	S	–	1.7780	0.5588
01116-U	1.35	3,240	13.00	Hemispherical	7.11	50	Halogen-Krypton	S	–	1.5240	0.6600
01110-U	1.67	3,215	16.50	Hemispherical	7.11	100	Halogen-Krypton	S	–	2.2350	0.5840
01103-U	1.80	3,200	17.00	Hemispherical	7.11	75	Halogen-Krypton	S	–	1.8290	0.6350
01124-U	1.80	3,250	15.50	Hemispherical	7.11	100	Halogen-Krypton	S	–	1.8290	0.6100
01165-U	1.87	3,225	18.90	Hemispherical	7.11	75	Halogen-Krypton	S	–	1.0410	1.0410
01113-U	1.95	3,290	20.50	Hemispherical	7.11	50	Halogen-Krypton	S	–	1.6510	0.7370
01268-U	3.28	3,050	24.00	Hemispherical	7.11	2,500	Halogen-Krypton	S	–	2.9210	1.0920
01111-U	3.35	3,325	37.00	Hemispherical	7.11	100	Halogen-Krypton	S	–	2.2350	0.8890
01295-U	3.35	3,325	37.00	Lens	7.11	100	Halogen-Krypton	S	5.72	–	–
01279-U	1.67	3,240	17.00	Lens	7.11	60	Halogen-Krypton	S	5.72	2.2352	0.5842
01164-U	3.28	3,050	24.00	Hemispherical	7.11	2,500	Halogen-Krypton	S	–	2.9210	1.0795
01256-U	1.67	3,215	16.50	Hemispherical	7.11	100	Halogen-Krypton	S	–	1.9050	0.6604
01316-U	1.67	3,230	18.75	Hemispherical	7.11	85	Halogen-Xenon	S	–	1.9050	0.5436
01336-U	0.64	3,070	4.60	Hemispherical	7.11	525	Halogen-Xenon	S	–	2.0828	0.3099
6.27 Volts											
01220-U	1.44	3,335	14.70	Hemispherical	5.10	60	Halogen-Krypton	R	–	1.4730	0.5590
01315-U	1.42	3,300	14.20	Lens	7.11	125	Halogen-Krypton	S	5.72	–	–
01209-U	1.44	3,335	14.70	Lens	5.11	60	Halogen-Krypton	R	3.56	1.4732	0.5588

[1] Refer to Figure 1 for lamp configurations.



General-Illumination Halogen Lamps–Miniature & Subminiature

(all dimensions in mm, all specifications are typical)

Part Number	Current (Amps)	Color Temp (°K)	MSCP	Envelope	Bulb Dia	Life Hours	Lamp Fill	Lamp Config[1]	Spot Dia	Filament Length	Filament Width
6.3 Volts											
01148-U	1.95	3,250	21.00	Hemispherical	7.11	140	Halogen-Krypton	S	–	1.4730	0.8130
7.2 Volts											
01274-U	2.77	3,320	44.00	Hemispherical	7.11	40	Halogen-Krypton	S	–	2.3370	0.7370
9.0 Volts											
01278-U	1.10	3,325	19.40	Hemispherical	7.11	25	Halogen-Krypton	S	–	2.0320	0.6100
9.6 Volts											
01185-U	3.15	3,370	65.00	Hemispherical	7.11	50	Halogen-Krypton	S	–	2.9210	0.8630
01171-U	1.33	3,308	25.00	Hemispherical	7.11	30	Halogen-Krypton	S	–	2.5400	0.5840
01306-U	1.10	3,280	19.50	Hemispherical	7.11	50	Halogen-Krypton	S	–	2.2350	0.5720
01318-U	1.93	3,300	42.50	Hemispherical	7.11	35	Halogen-Krypton	S	–	2.3880	0.6860
01328-U	1.33	3,308	25.00	Hemispherical	7.11	30	Halogen-Krypton	S	–	2.5400	0.5842
01329-U	3.15	3,370	65.00	Hemispherical	7.11	50	Halogen-Krypton	S	–	2.9210	0.8636
01331-U	1.93	3,300	42.50	Hemispherical	7.11	35	Halogen-Krypton	S	–	2.3876	0.6858
10.2 Volts											
01314-U	0.98	3,100	14.00	Hemispherical	7.11	1,000	Halogen-Krypton	S	–	2.6420	0.5590
10.5 Volts											
01126-U	1.50	2,820	15.00	Hemispherical	7.11	5,000	Halogen-Krypton	S	–	3.0480	1.0670
11.6 Volts											
01166-U	1.97	3,450	56.00	Hemispherical	7.11	20	Halogen-Krypton	S	–	2.5400	0.8128

[1] Refer to Figure 1 for lamp configurations.



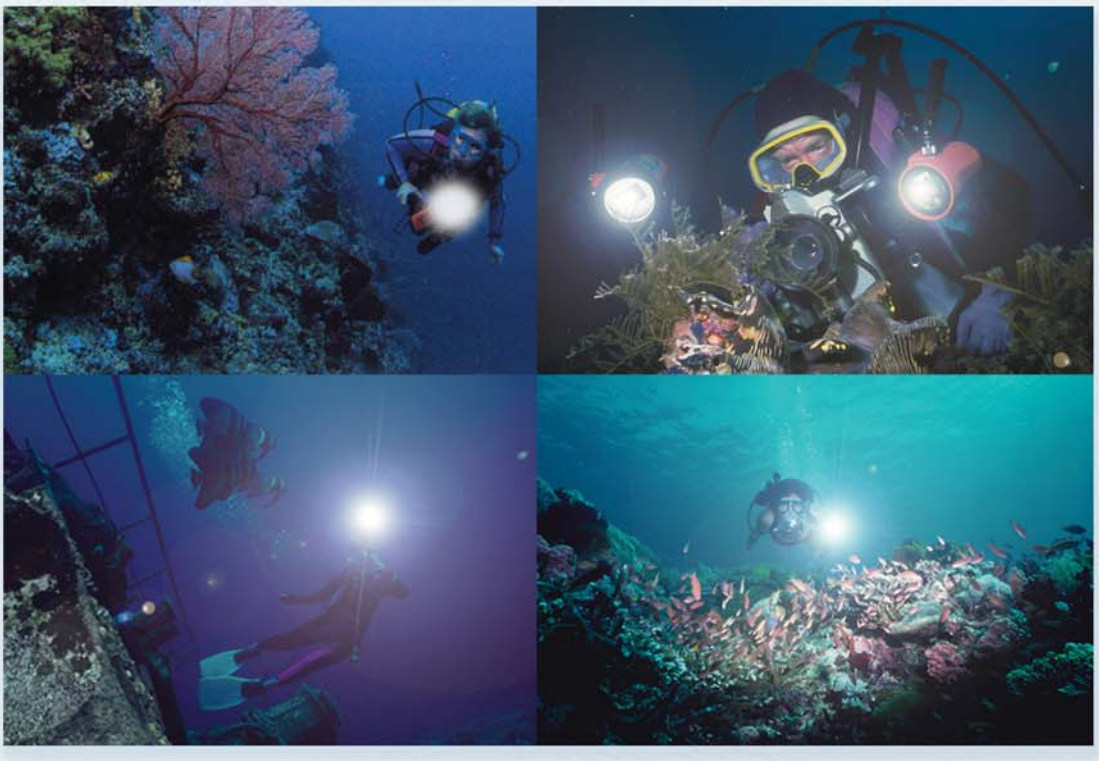
General-Illumination Halogen Lamps–Miniature & Subminiature

(all dimensions in mm, all specifications are typical)

Part Number	Current (Amps)	Color Temp (°K)	MSCP	Envelope	Bulb Dia	Life Hours	Lamp Fill	Lamp Config[1]	Spot Dia	Filament Length	Filament Width
12 Volts											
01108-U	1.00	3,280	22.00	Hemispherical	7.11	40	Halogen-Krypton	S	–	2.6670	0.6860
01191-U	1.00	3,280	22.00	Lens	7.11	40	Halogen-Krypton	S	4.95	–	–
01115-U	1.17	3,120	23.00	Hemispherical	7.11	200	Halogen-Krypton	S	–	2.7940	0.6860
01079-U	1.67	3,000	25.00	Hemispherical	7.11	2,000	Halogen-Krypton	S	–	4.1910	0.9650
01149-U	1.67	3,000	25.00	Lens	7.11	2,000	Halogen-Krypton	S	4.95	–	–
01308-U	1.70	3,050	28.40	Hemispherical	7.11	2,000	Halogen-Xenon	S	–	4.1660	0.9400
01312-U	1.70	3,070	33.00	Hemispherical	7.11	2,500	Halogen-Xenon	S	–	3.8100	0.8130
01323-U	1.00	3,150	18.25	Hemispherical	7.11	1,000	Halogen-Xenon	S	–	2.7940	0.7240
01282-U	1.70	3,025	26.10	Hemispherical	7.11	2,000	Halogen-Xenon	S	–	4.1900	0.9650
01326-U	0.80	3,090	13.60	Hemispherical	7.10	1,000	Halogen-Xenon	S	–	2.7900	0.5460
06300-U[2]	1.66	–	27.85	Top Tip	9.00	2,000	Halogen-Krypton	S	–	–	–
14 Volts											
01125-U	1.79	3,200	44.00	Hemispherical	7.11	200	Halogen-Krypton	S	–	4.1910	0.9650

[1] Refer to Figure 1 for lamp configurations.

[2] Quartz two-pin lamp



Sōlarc® Lamps
(specifications are typical)

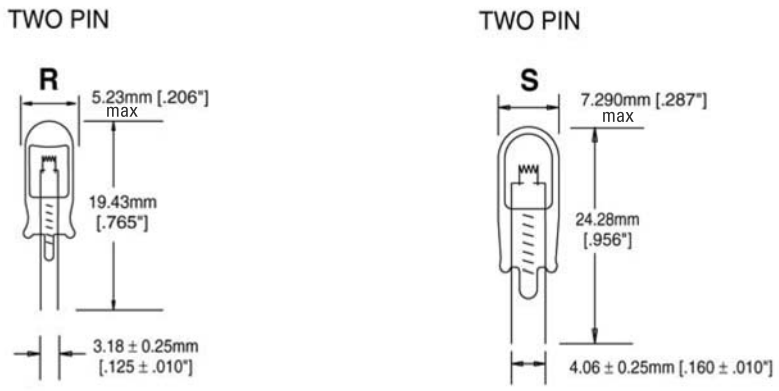
Part Number	Description	Voltage (Volts)	Current (Amps)	Wattage (Watts)	Color Temperature (˚K)	Life Hours	Beam Divergence (Degrees)
Reflectorized Sōlarc Lamps							
M21P011	21 W MR16 Parabolic Lamp Assembly	60	2.00	120	5,200	350	12
M21P021	21 W Lamp Assembly	60	2.00	120	5,200	350	20
M10P001	10 W Parabolic Lamp—Bulk Pkg	67	0.15	10	6,500	1,000	6
M10P001-1	10 W Parabolic Lamp—Indiv Pkg	67	0.15	10	6,500	1,000	6
M10P002-1	10 W Parabolic Lamp—Indiv Pkg	67	0.15	10	6,500	1,000	13
M10P002	10 W Parabolic Lamp—Bulk Pkg	67	0.15	10	6,500	1,000	13
Single-Ended Sōlarc Lamps							**Light Output (Lumens)**
M21N002	21 W AXI Lamp w/out Sleeve	60	1.75	21	5,380	750	1,500
M10N001	10 W Single-Ended Lamp with Coverglass—BULK	67	0.15	10	6,500	1,000	500
M10N001-1	10 W Single-Ended Lamp with Coverglass—INDIV	67	0.15	10	6,500	1,000	500

Sōlarc lamps are high-intensity discharge (HID)-type lamps requiring the use of additional components. Lamp performances are rated using Welch Allyn B22R series ballast. Ballast and connectors are sold separately.





Figure 1: Incandescent Lamp Configuration (all dimensions in mm [inches])



Specifications are typical unless otherwise noted.

Welch Allyn—Your Source For
Precision Arc & Halogen Lamps

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