REPLACEMENT PART LIGHTING CONTROL V1 CLASSIC

ROOFTOP PHOTOCELL

A low-voltage Wattstopper photocell on the roof of the V1 Portland Loo. It tells the lighting controls when it's dark enough to run the interior and exterior lights.



24 VAC	1 A	1/2"	5 yr
Low-voltage supply from the lighting controls	N/O relay contacts @ 30 VAC/VDC	Threaded conduit base with locknut	Wattstopper warranty

OVERVIEW

Every stock V1 Portland Loo ships with a Wattstopper EM-24A2 photocell on the roof. It measures daylight and switches a dry relay contact that tells the lighting controls when to run the interior and exterior lights, so the restroom is lit from dusk to dawn without timers or seasonal adjustments.

The photocell runs on 24 VAC from the lighting controls it serves. Its 1/2" threaded base screws into a conduit fitting or junction box, so a replacement goes in where the old one came out and connects with four color-coded leads.

KEY FEATURES

01 **Dusk-to-dawn lighting**
Switches the Loo's interior and exterior lights on at dusk and off at dawn.

02 **Adjustable light level**
A sliding window sets how early the lights turn on in the evening and how late they turn off in the morning.

03 **Safe low voltage**
Runs on 24 VAC, and its relay contacts are rated 1 A at 30 V, so no line voltage reaches the roof sensor.

04 **Easy to replace**
Screws into a 1/2" conduit fitting with the supplied locknut and connects with four #18 AWG leads.

SPECIFICATIONS

ITEM	DETAIL
Model	Wattstopper (Legrand) EM-24A2 exterior photocell
Function	Low-voltage photocell that signals light levels to the lighting controls
Supply voltage	24 VAC on the two black leads, normally supplied by the lighting control it serves
Output	Normally open relay contacts on the two red leads, rated 1 A @ 30 VAC/VDC
Leads	(4) #18 AWG: 2 black (power), 2 red (relay contacts)
Mounting	1/2" male threaded conduit base, for a conduit fitting or junction box; locknut supplied
Orientation	Light-sensing window faces north
Adjustment	Sliding window: moving it up turns the lights on earlier and off later
Location on the Loo	Roof top, standard on every stock V1 Classic
Controls	When the interior and exterior lights operate
Warranty	5 years from Wattstopper, covering materials and workmanship

ORDERING OPTIONS

OPTION	STANDARD	AVAILABLE ON REQUEST
Model / voltage	EM-24A2, 24 VAC STD	EM-24D2, 24 VDC
Fits	V1 Classic STD	—
Mounting hardware	Locknut included STD	—

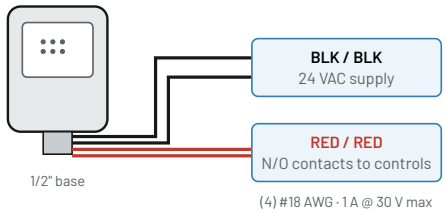
VIEWS



Angled view. Housing with the sliding window, threaded base and leads.



Window open. The sensing window slid back to show the photocell.



Wiring. Black leads take 24 VAC; red leads are the dry relay contacts to the lighting controls.

INSTALL TIP

Face the sensing window north so direct sun doesn't fool the sensor. If the lights come on too late or turn off too early, slide the window up a little. Never connect line voltage to the red leads: the contacts are rated for 30 V maximum.