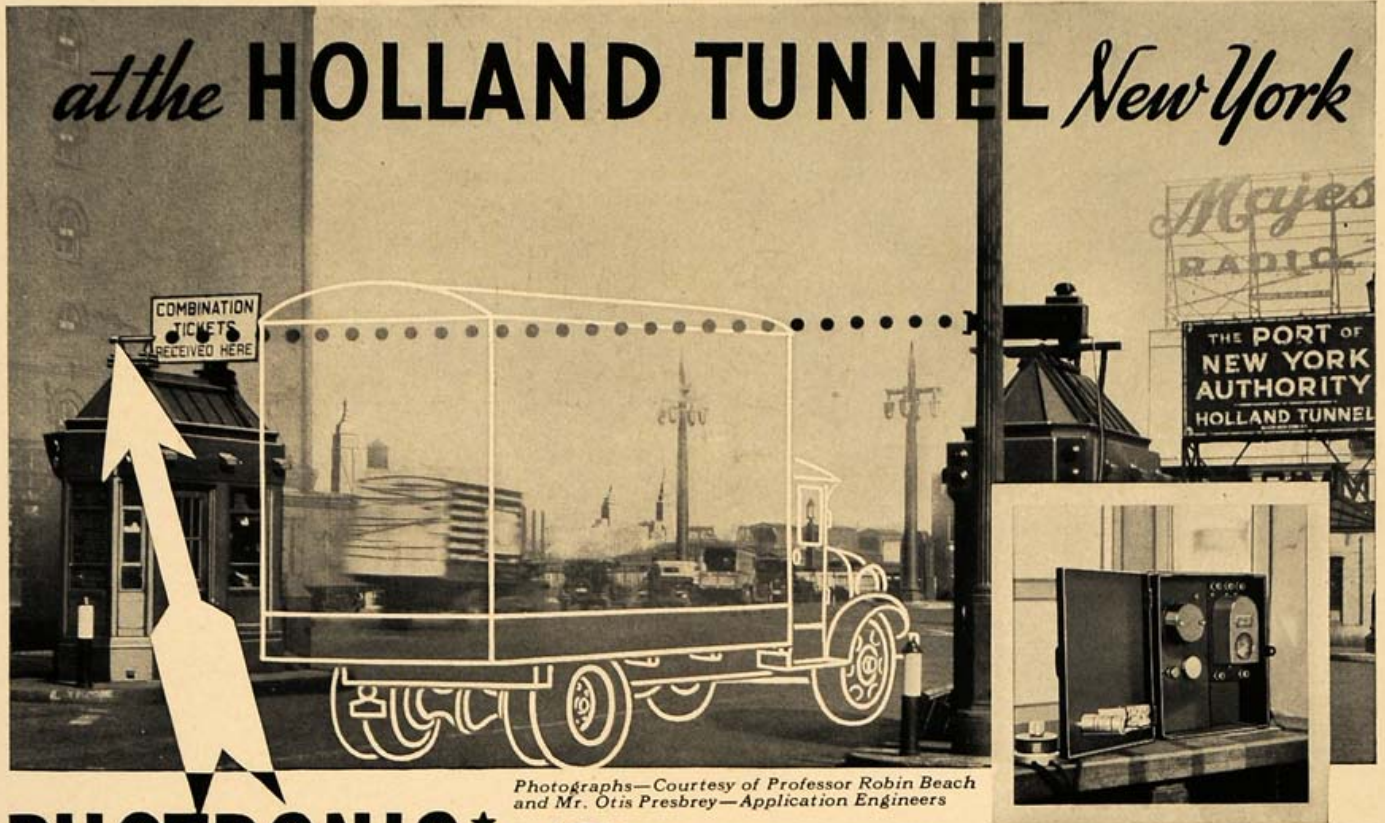


PUTTING LIGHT TO WORK

at the HOLLAND TUNNEL *New York*



Photographs—Courtesy of Professor Robin Beach and Mr. Otis Presbrey—Application Engineers

PHOTRONIC[★] PHOTO ELECTRIC CELL

Stops the High Ones

Interesting Notes on Truck Height Detection at the Holland Tunnel

1. The PHOTRONIC[★] photoelectric Cell equipment sounds the alarm when an obstruction as narrow as one inch intercepts the light beam at a speed rate up to 25 miles per hour.
2. The lamp which supplies the light beam across the roadway through a special condenser system, is operated at a reduced voltage in order to increase the life of the lamp filament. The lamp has been in continuous operation for over 5,000 hours.
3. The PHOTRONIC[★] photoelectric Cell equipment is provided with compensation for excessive smoke conditions due to the proximity of railroads. This compensation circuit renders the cell auxiliaries equally sensitive under clear or excessive smoke conditions.
4. The PHOTRONIC[★] photoelectric Cell and its auxiliary relay equipment has continued to withstand the jarring due to severe road shocks caused by the heavy trucks approaching and leaving the toll booths under conditions of high acceleration.
5. The Cell and auxiliary apparatus has functioned continuously under severe weather conditions ranging from very cold stormy weather of the late winter to the most extreme heat of the summer months.

★PHOTRONIC—a copyrighted name used to designate the photoelectric cells and photoelectric devices manufactured exclusively by the Weston Electrical Instrument Corporation.

For the past eight months, Weston PHOTRONIC[★] photoelectric Cells have been working continuously twenty-four hours a day at the Port of New York Authority's famous Holland Vehicular Tunnel. Since installation, they have not required maintenance, replacement or adjustment other than cleaning lens of Light Source.

Their function is to prevent vehicles whose height exceeds 12 feet, 6 inches from entering the Tunnel.

A light beam 12 feet, 6 inches, above and parallel to the ground, is projected 32 feet across the roadway to a PHOTRONIC[★] photoelectric Cell. An overhigh vehicle, in passing, intercepts the beam, causing the PHO-

TRONIC[★] photoelectric Cell to operate an alarm. *Obstructions, even as small as one inch wide, intercepting the beam at a speed as fast as 25 miles per hour, operate the alarm.*

In this application, eight months of continuous, trouble-free performance in all kinds of weather proves that the Weston PHOTRONIC[★] photoelectric Cell is a practical, reliable device . . . a dependable, automatic control for Industry to put to work.

For more information—Circulars describing the PHOTRONIC[★] photoelectric Cell and PHOTRONIC[★] Relays for counting, sorting, limit measurement, illumination control, etc., gladly sent on request.

WESTON

Fourteen months ago, Weston made astounding claims for the PHOTRONIC[★] photoelectric Cell. Every day more actual performance records substantiate those claims. They have proved the PHOTRONIC[★] photoelectric Cell a reliable, simple, economical means of control.

ELECTRICAL INSTRUMENT CORPORATION

578 FRELINGHUYSEN AVENUE

NEWARK, N. J.