

FLARES ARE THE BEST SIGNAL FOR ESTABLISHING ADVANCE WARNING AND TRANSITION AREAS IN MINOR AND INTERMEDIATE INCIDENTS

**STOPPING
DISTANCE**

=

**Perception/
Reaction
Distance**

+

**Braking/
Skidding
Distance**

At 60 mph, a vehicle will travel 220 ft. before even applying the brakes!

- **UNIVERSALLY UNDERSTOOD**

Danger recognition at the earliest moment is absolutely critical. Unlike cones and arrow boards, which we see everyday in mundane circumstances, everybody knows the unique flickering red glare from a flare means "slow down / move away / first responders on scene / danger ahead".

- **NOT DISTRACTING OR BLINDING**

It is widely reported that too many bright and flashing lights on scene is confusing and distracting to drivers. The steady flicker of flare light provides immediate danger notification and channeling information without adding to the confusion.

- **BRIGHTEST SIGNAL**

Minimum 5x brighter than portable electronic alternatives (and not battery dependent). If upstream traffic can't see or understand your **ADVANCE WARNING** signal, these extra seconds of perception/reaction time could mean your life!

- **BIGGEST SIGNAL / INDEPENDENT LIGHT SOURCE**

Light from flares illuminates surrounding elements (e.g., vehicles, bushes, trees, guard rails, telephone poles) and is even further amplified by snow and fog making the "signal" even bigger. Unlike cones which require external lighting, flares self-illuminate and do not depend upon angle of reflectivity.

- **COMPACT, EASY TO STORE & QUICK TO DEPLOY**

Typical flare deployment with 10-18 flares is fast and manageable. Cones are heavy, bulky and difficult to manhandle onto the active roadway, and signage takes time to get on scene. Every cruiser can carry a sufficient number of flares to quickly and effectively establish the **ADVANCE WARNING & TRANSITION AREAS**.

800-637-7807

www.orionsignals.com

ORION[®]
The Brightest Name in Safety

USING FLARES IN THE TEMPORARY TRAFFIC CONTROL ZONE (TTCZ) TO ELIMINATE SECONDARY CRASHES, NEAR-MISS & STRUCK-BY-VEHICLE INCIDENTS

FIRST STEPS

Traffic control “size-up” and beginning of action plan should occur as soon as possible, within your department guidelines. Classify incident:

MINOR – under 30 minutes

INTERMEDIATE – 30 minutes to 2 hours

MAJOR – over 2 hours

Flares are the ideal signal for MINOR and INTERMEDIATE incidents given formulated burn times, speed of deployment and proven effectiveness. Flares are also ideal for establishing initial Advance Warning in a MAJOR incident until long-term signal devices arrive on scene. Analyze the type and location of incident to determine what type of traffic control zone will properly alert upstream motorists. Consider:

POSTED SPEED

Which dictates distance of Advance Warning from incident and length of taper in Transition Area.

ATMOSPHERIC & LIGHT CONDITIONS

Which will affect perception/reaction time before speed reduction and modified behavior can be effected.

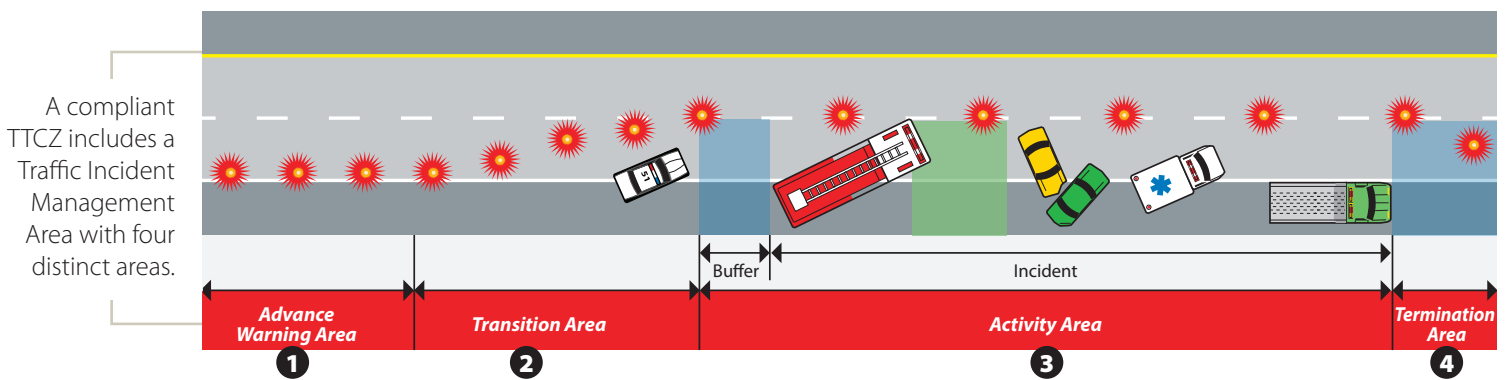
SURFACE CONDITIONS

Which will affect braking and skidding distances.

CURVE RADIUS & ELEVATION CHANGES

Which will affect sight lines and can require that Advance Warning area be moved farther back from incident.

ESTABLISHING THE TTCZ

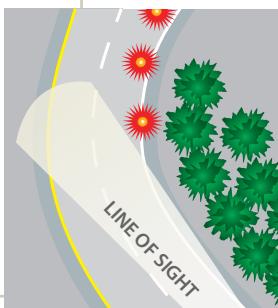


SPECIAL DEPLOYMENT CONSIDERATIONS

HORIZONTAL VIEW OBSTRUCTIONS can greatly impact where you establish your Advance Warning area and often are not properly considered. Adequate sight distance is critical for upstream traffic to recognize the presence of the hazard.

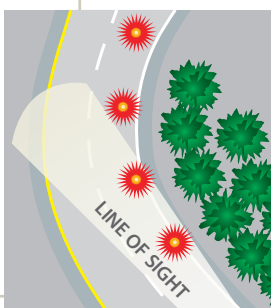
IMPROPER PLACEMENT

Flares establishing Advance Warning area are not within driver's line of sight.



EFFECTIVE PLACEMENT

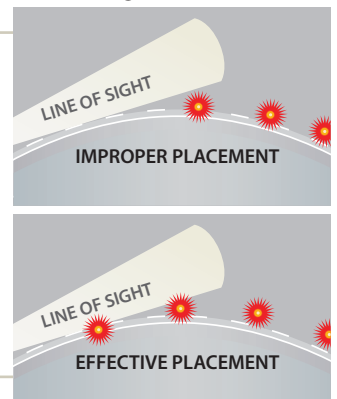
When flares are moved into the line of sight of upstream drivers, they can take corrective action.



VERTICAL OBSTRUCTIONS equally impact location of Advance Warning area.

PROFILE VIEWS OF VERTICAL OBSTRUCTION

Sight distance must be sufficient for upstream driver to take corrective action.



SUPPLEMENTAL TRAINING RESOURCES

Visit www.orionsignals.com/overview.html (or snap the QR code with your mobile device) to learn more about the proper lighting, handling and storage of Orion Flares.

