



## SMALL PRISMS

SWARCO TRAFFIC SYSTEMS GmbH is a member of the internationally active SWARCO group, the one-stopshop for road markings, signage, signalisation, and traffic management – your reliable partner for traffic solutions. Variable message signs with Prism Technology ensure additional traffic safety and optimum traffic flow.

### APPLICATION AREAS:

Variable message signs using small prism technology are used as Highway Code signs, directions signs, pictograms, and lettering in general for inner city use, as well as interurban. Due to their extremely low power consumption, prismatic signs are also ideally suited for solar power supply: energy is almost only required if the prisms are to be rotated.



### PRISM SECTION:

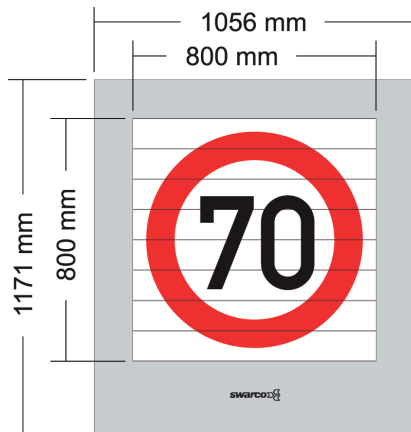
The variable display(s) of a prism sign consist of triangular rotating bodies with side lengths of 100 millimetres, seamlessly drawn from aluminum. The prisms rest on dustproof ball bearings, lubricated for life, in a torsion-free housing. The drive mechanism is powered by a heavy duty electric motor with overload protection. An rust proof adjustable worm drive serves for power transmission.

### SIGN HOUSING:

The attractive sign housing, which can be colored according to individual requirements, is made of aluminum and corresponds to protection type IP 54. The prisms are either mounted flush with the front of the housing („open“ design) or installed within the housing („closed“ design).



## TECHNICAL DETAILS: SMALL PRISMS



### „CLOSED“ VERSION:

In the case of the „closed“ version, the prism section is covered with a Plexiglas panel mounted flush with the front of the housing. It is typically internally illuminated at night, and an integrated heater prevents the front panel from fogging up. Similar to static traffic signs, the images are realized via non-reflecting foil (Type N) or in reflection class RA1.

### MECHANICAL FAIL/SAFE - FUNCTION FOR ADDITIONAL SAFETY:

As an additional option, SWARCO prism signs can be equipped with a spring powered mechanism ensuring the sign always returns to a predefined message in case of a power outage. Once power returns, the spring energy store is automatically „recharged“.

### CONTROL VARIANTS:

- ◆ Commands and feedback via switching contacts
- ◆ RS 485 serial protocol
- ◆ Without controller (end switch and motor wired to terminals)
- ◆ Motor protection and timing element

### ANTI-FROST CONTROL:

If equipped with proven SWARCO controllers and temperature sensors, an ice preventing procedure is possible: for temperatures below 2°C, prisms are rotated by about 10° in a forward and reverse direction at a programmable time interval (normally, every 60 minutes). This prevents prism bearing freezing and the formation of continuous ice layers on the prism surfaces.

**SWARCO variable prism signalling systems are tested according to EN 12966 - 1:2005, EC certificate of conformity 0760 - CPD - S07003.**

### SAMPLE VARIABLE MESSAGE APPLICATIONS:

- ◆ Speed reduction signs ◆ Traffic jam warning (especially in construction zones) ◆ Hard shoulder running ◆ Freight transport controls
- ◆ Solar powered VMS

### Your local partner:



### SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS is one of the leading suppliers of intelligent traffic systems in Germany. Drawing on decades of experience, the company offers a broad range of innovative solutions in urban and inter-urban traffic management, including applications in parking and detection. A large network of service outlets ensures maximum possible system availability and traffic safety. With cost-effective, sustainable, and environmentally friendly technologies, we see it that traffic flows smoothly and everyone arrives safely.

