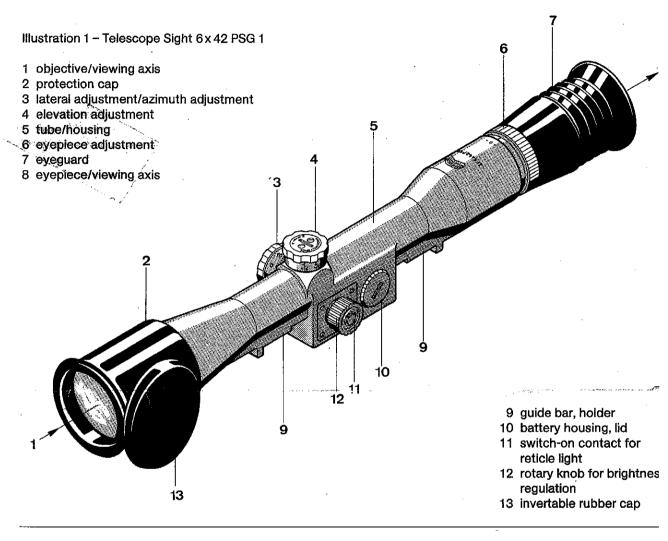


Optische Werke AG

Zeiss-Group West Germany

Data Sheet 33 01 24

TELESCOPE SIGHT 6 x 42 PSG 1



Short designation	ZF 6 x 42 PSG 1
DrwgNo.	33 01 24-0000.000

Purpose

The telescope sight is intended for use with a sniper rifle, e.a. PSG 1. It serves the gunner for targeting and aiming and also allows target observation at greater distances. The maximum adjustable shooting distance is 600 m.

Measurements

Length with cap and eyeguard	390 mm
Diameter (cap)	
Height	130 mm

Weight

Telescope Sight															602 g
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Optical Data

Telescope magnification (V) 6
Entrance pupil (EP) 42 mr
Exit pupil (AP) 7 mr
Eye relief 70 mr
Field of view angle
Field of view at 100 m 7 r
Diopter setting ±2 dp
Optical length (I) 309 mr
Superelevation angle adjustment
stops from 100 m to 600 r
Lateral adjustment
stops every $0,1$ $\pm 2,5$
01b B - 1 -

Other Data

Reticle light	٠	٠		٠	٠			٠	adjustabl
Illumination period								ар	prox. 2 mir
Batteries/button ce	H	CC	οlι	ım	۱n		3	/60	DK VART

Short Description

The **ZF 6 x 42 PSG 1** is a monobjective/monocular telescope sight with a lens erecting system and 6 power magnification. The superelevation angle is adjustable for shooting distances from 100 m to 600 m.

All air – glass surfaces of the optical components (except the reticle) are coated with a wipe-proof reflection reducing coating. The telescope sight is so well sealed that even during sudden temperature changes and spray-water influences it remains usable.

The ZF 6x 42 PSG 1 consist of:

(1) tube (1/5) with the objective (2/1), elevation adjustment (1/4) for range and elevation adjustment, lateral adjustment (1/3) for adjustment of the lead angle and for azimuth adjustment, reticle (2/2) with the reticle pattern (Illustration 3) in the first image plane, lens erecting system (2/3) and guide bars

(1/9) acc. to STANAG 2324 for mounting the ZF 6x42 PSG 1 to rifle.

(2) **reticle light** with **contact** (1/11) for switching on a luminous diode (the two minute luminating period of which is defined by an electronic timing circuit), **rotary knob** (1/12) for regulating brightness of the luminous diode, **battery housing** (1/10) for the screwable **lid** (1/10) for locking battery housing.

(3) **eyepiece** (1/8) with the two **eyepiece lenses** (2/4) and the **eyeguard** (1/7).

(4) **protection cap** (1/2) for protection of the tube with invertable **rubber cap** (1/13), which can be closed to protect objective (1/1), when the telescope sight 6 x 42 PSG 1 is not in use.

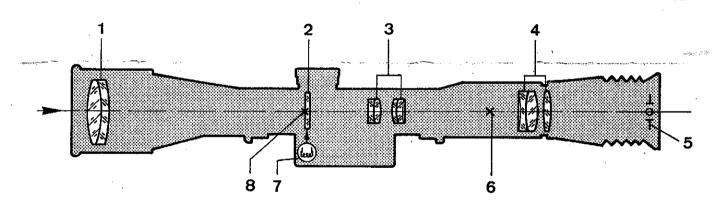


Illustration 2 - Optical Structure

- 1 objective
- 2 reticle
- 3 erecting system
- 4 eyepiece
- 5 exit pupil
- 6 second image plane
- 7 instrument light
- 8 first image plane (reticle plane)

