

Auto Darkening Filter



TECHNICAL DATA SHEET

GVS-RPB.COM

Approvals & Standards



ANSI/ISEA Z87.1-2020
WELDING EYE PROTECTION

CE 2797
UK 0086
CA

EN ISO 16321-2:2021
WELDING EYE PROTECTION



Certified Model
Modèle certifié

CSA Z94.3-20
EYE & FACE PROTECTION
Auto Darkening Welding Filter
PROTECTION DES YEUX ET DU VISAGE
Filtre de soudage à assombrissement
automatique



16-871-4 GVS ADF

The GVS ADF is an automatic welding filter is a device that protects the eyes from glare and dangerous radiation caused by welding. An automatic welding filter combines a passive UV and a passive IR filter with an active filter, the luminous transmittance of which varies in the visible region of the spectrum, depending on the irradiance from the welding arc. The luminous transmittance of the automatic welding filter has an initial high value (light state). After the welding arc strikes and within a defined switching time, the luminous transmittance of the filter changes to a low value (dark state).



Part numbers

Part

GVS Auto Darkening Filter	16-671-4
Z-Link+ with GVS Auto Darkening Filter	16-640
Impact Lens (10 pack)	16-872
Rear Lens (10 pack)	16-873

Required components

- GVS Z4 or Z-Link with Z-Link+
- FR cape or face seal
- Breathing tube
- Flow control device and breathing airline, or GVS PAPR

Application ranges (including but not limited to the following)

Heavy industry welding (where hard hat is required), arc spray/metalization, plasma/oxy-acetylene cutting, lancing, and burning.

Warranty

1 year for 16-871-4 lens. Conditions apply, visit gvs-rpb.com/legal for full details.

Auto Darkening Filter



TECHNICAL DATA SHEET

GVS-RPB.COM

Specifications

GVS ADF technical data 16-871-4

Model	GVS ADF
Viewing area	2.64 x 3.96 in (67.3 x 100.6 mm)
ADF overall dimensions	4.49 x 4.57 x 0.47 in (114 x 116.2 x 11.9mm)
Weight	4.76oz (135g)
Open state shade	3 (bright mode)
Closed state shade	7-13 (dark mode)
Switching time	0.04 ms
Sensitivity Adjustment	Adjustable (7 step, Low to Hi)
Delay Adjustment	Adjustable (7 step, fast-slow)
Dual Sensor	Photo sensors - 4 ea RF sensors - RF mode
Mode Switch	RF mode ↔ Photo (PT) mode
UV / IR protection	Maximum protection in light and dark modes
Operating temperature	23°F to 131°F (-5°C to 55°C)
Storage temperature	-4°F to 157°F (-20°C to 70°C)
Power supply	Solar cells, 2 pcs. replaceable 3V LI batteries (CR2032)/2000 hours Solar cell (Auto On/Off)
Classification in accordance with EN16321-2:2021	16321 GVS W3/7-13 V2 CE
Certifications	CE, ANSI, CSA

Weight

Z-Link+ with ADF	0.84lbs (380g)
Z-Link+ with passive lens	0.66lbs (301g)

Materials

PC/ABS	ADF housing
Glass	ADF lens or fixed shade lens

The ADF is latex free.

Storage temperature

Visor: 14°F to 113°F / -10°C to 45°C <90%RH
ADF: -4°F to 157°F / -20°C to 70°C

Operating temperature

ADF: 23°F to 131°F (-5°C to 55°C)

Cleaning Recommendations

It is always necessary to keep the solar cells and the light sensors of the auto-darkening welding filter free of dust and spatters: cleaning can be done with a soft tissue or a cloth with mild detergent, alcohol, or window cleaner.

Certification Markings

The CE markings on the ADF indicate:

16321 GVS W3/7-13 V2 CE

Number of the Standard	Manufacturer	Welding Filter	Light Shade/Dark	Shade Range	Angular dependence class
------------------------	--------------	----------------	------------------	-------------	--------------------------

Mode Switch

The RF sensor is for fast shading speed of the welding filter and stable welding shading performance in low current TIG welding. However, if a malfunction occurs due to interference from the surrounding environment, switching to the photo mode is recommended.



Auto Darkening Filter

Z-Link+® Weld Visor



TECHNICAL DATA SHEET

GVS-RPB.COM



Employers

Read the Z-Link and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

Product users

Read the Z-Link and the flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated.

Current version of manual and for other languages:

gvs-rpb.com/resources

Contact

GVS Safety

2807 Samoset Rd, Royal Oak, MI 48073, USA

T: 1-866-494-4599

E-mail: respirators@gvs.com

gvs.com | gvs-rpb.com