AK5850B

AK5850B - Ex TwinCom Helmet Mount Headset



Ex-approved Headset with helmet mounting

- Rugged headset for Ex and Industrial environments
- Helmet mount
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- High quality audio
- Standard 4-pole Nexus connector for easy connection/replacement
- For use with Ex-approved and industrial plugboxwith PTT
- Low smoke and halogen free cable
- Designed for Turbine Ex explosion-proof and industrial intercoms

IP54 ICX ICX-AlphaCom Exigo

Description

The AK5850B is a high-quality industrial Ex-approved helmet-mounted headset designed for use in rugged and hazardous environments. It features an adjustable boom microphone and a short curly cable terminated with a 4-pole Nexus plug, allowing secure mounting directly on compatible safety helmets.

Zenitel Turbine Ex | Industrial Intercom use

When used with Zenitel Turbine Ex or Industrial Intercom stations, the headset must be connected via the TAX-2B or TA-22B cable with plugbox. This cable assembly provides the required interface between the headset and the intercom station. In this configuration, the AK5850B supports HD Voice functionality with compatible Zenitel intercom systems.

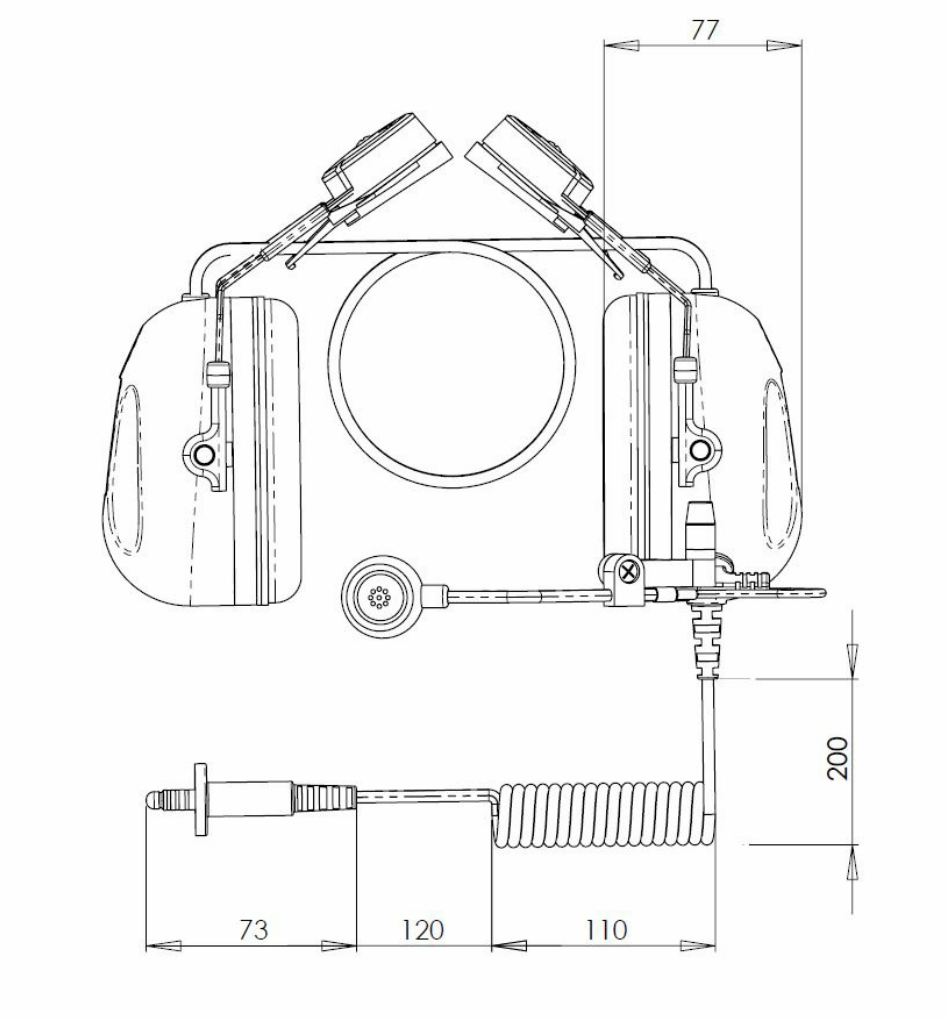
Used together with the TAX-2B or TA-22B cable and plugbox with PTT, the solution provides reliable communication with an operating range of over 10 meters, depending on installation and operating conditions.

Technical Dimensions

www.zenitel.com info@zenitel.com Last revision date: 2026-01-20 12:07

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Specifications

MECHANICAL	
Weight	386 g
ENVIRONMENTAL	
Operational Temperature	-40°C to +60°C
Ingress Protection (IP)	IP-54 (when worn)
ELECTRICAL	
Impedance	230 ohm
Sensitivity (mic)	4 mV / 220 ohm
ACOUSTICAL	
Frequency Response	90-7000 Hz
Noise Reduction	-12dB @ 1kHz

SOUND ATTENUATION	AK5850BS Helmet attached hearing protector TwinCom with custom moulded earplug
Above 1kHz:	29,8 to 36 dB
500-1000 Hz	29 to 41,2 dB
125-500 Hz	19,6 to 29 dB
H84	29 dB
M84	29 dB
L84	23dB
SNR84	30 dB

CERTIFICATIONS	
CENELEC safety standards	EN 60079-0: 2018 & EN 60079-11: 2012
IEC safety standards	IEC 60079-0: 2018, IEC 60079-11: 2012
Marking	Ex ib IIC T4 Gb, Ta : -40°C to +60°C
ATEX certificate	Nemko 03ATEX1351 Issue 9
IECEx certificate	IECEx PRE 15.0063 Issue 2
PPE	(EU) 2016/425 (EN 352-1:2020, EN 352-2:2020, EN 352-3:2020, EN 352-6:2020 and EN 352-9:2020)

Accessories

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TAX-2B

Ex-Approved Plugbox & Cable for Headset with PTT

Item Number: 1008150025



TA-22B

Industrial Plugbox & Cable for Headset with PTT

Item Number: 1008140225

Used With



EAPFX-6-V2

Exigo Industrial Ex Access Panel, 6 Buttons - V2

Item Number: 1023221616



EAPFX-1-V2

Exigo Industrial Ex Access Panel - V2

Item Number: 1023221611



TFIX-1-V2

Ex IP Intercom Station- full keypad

Item Number: 1008123110



TFIX-2-V2

Ex IP Intercom Station with 6 buttons

Item Number: 1008123120



TFIX-3-V2

Ex IP Intercom Station with 3 buttons

Item Number: 1008123130



TFIE-1

IP and SIP Intercom

Item Number: 1008122010



TFIE-2

IP and SIP Intercom

Item Number: 1008122020



EAPII-1

Exigo Industrial Access Panel, 1 Button

Item Number: 1023201201

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EAPII-6

Exigo Industrial Access Panel, 6 Buttons

Item Number: 1023201206



TFIE-6

IP and SIP Intercom

Item Number: 1008122060

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