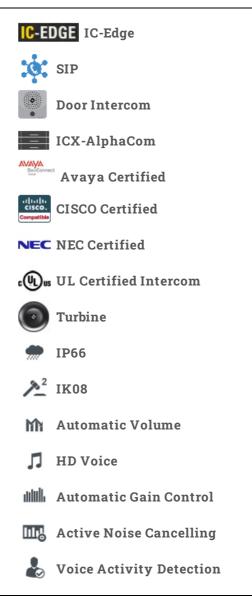


1008111030

TCIS-3

IP and SIP Intercom





• Designed according to Disability Act requirements

- Audio Presence crystal clear audio
- · Amazing sound pressure levels when needed with automatic volume adjustment
- Background noise cancellation
- ONVIF Compatible

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- Dirt, dust and water resistant rating IP66
- Built to last with robust die-cast aluminum frame rating IK08
- Supports wide set of IP and networking standards
- Black thermoplastic front plate with one button
- Ideal for Building Security and Public Environments

Created: 01.07.2014, updated: 30.03.2023

sales@ringuk.com

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DESCRIPTION

All IP stations in the Turbine series utilize the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, a 10W Class D amplifier and our unique speaker grille design. These features, in conjunction with our 70+ years of experience with acoustic technology are only a few of the many factors that contribute to our superior audio quality.

See also: additional documentation on wiki.zenitel.com

SPECIFICATIONS

AUDIO

Audio quality - percentage articulation loss of consonants (Alcons) - at 70 dB	< 5%*
Audio quality - total harmonic distortion + noise, without noise reduction (THD+N) - at 70 dB	< 2%*
SPL rated power at 1m in open duplex	95 dB*
SPL rated power at 1m in half duplex	105 dB*
SPL rated power at 1m in program distribution and announcement	105 dB*
Noise cancelling - suppression of musical noise	YES
Noise cancelling - suppression of static noise	YES
Noise cancelling - suppression of rapidly changing noise	YES
Codecs	G.711, G.722, G.729
Frequency range, G.722 Codec	200 Hz – 7000 Hz
Audio technology	Modes: Full open duplex, switched open duplex
	Adaptive jitter buffer
	Custom Ringing Tone
	Audio Mixing – Conversation and Group Call
	Sound Level Detection / scream alarm (only in AlphaCom)
	Automatic gain control (microphone)
Internal speaker amplifier	10 W class D
Microphone technology	Digital MEMS, omnidirectional microphone
Automatic Volume Control (AVC)	Undistorted and clear audio
Acoustic Echo Cancellation (AEC)	Prevents audio feedback even at high volumes (95dB)
10W Speaker	Matches 10W amp for distortion-free broadcast level sound
	* Tested with Audio Precision SYS 2722 equipment
HARDWARE	
Ethernet connector	1 x RJ 45
All other connectors	Tool less, spring loaded, vibration proof terminals
General inputs and outputs	6 (configurable)
Outputs	12mA as LED drivers
Change-over relay (NO+NC+COM)	Max: 250VAC/220VDC, 2A, 60W
Power options	PoE and or external power supply
PoE (Power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
External power supply	24 VDC (16 - 48 V)
Power consumption	Idle 1.8W, max 12W (depending on volume)
Audio line out / induction loop signal	600 Ohm
Button backlight	LED
Call indication	Icons/colors for hearing impaired
Door open indication	Icons/colors for hearing impaired
CONSTRUCTION	
Dimensions (HxWxD)	180 x 120 x 73 mm / 7.1" x 4.7" x 2.9"
Dimensions after flush mount	180 x 120 x 24 mm / 7.1" x 4.7" x 0.9"
Dimensions with on wall box	180 x 120 x 86 mm / 7.1" x 4.7" x 3.4"

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CONSTRUCTION

Base / frame material 3 mm / 0.12* / Juminum alloy - At13.0, AlS12Fe, painted Electronics cover material Polycarbonate (translucent) Gasket material SECC Steel Pattening bracket material SECC Steel Button material 3 mm / 0.12* Polycarbonate (transparent) Button activation force 300 gl Button activation force 300 gl Button activation force 300 go Amerbaic Seg protection, large diameter objects Stainless steel mesh acoustically transparent Loudspeaker poke protection, large diameter objects Stainless steel mesh acoustically transparent Loudspeaker poke protection, large diameter objects Stainless steel mesh acoustically transparent Loudspeaker poke protection, small diameter objects Pole (with Differs), SIP, TCP, LUDP, HTTPS, TTPP, RTP, SRTP, DHCP, SNMP, ONVIP, CoaPPS, NTP LAN protocols Power over Elhernet (EEE 602.3 e/) Natwork Access Control (EEE 602.1 v) Management and operation RFC 2820, (SIP base tandard) FIP G2976 (SIP Info), SIP using TLS, RFC 6830 SIPS URI SIP support RFC 2820, (SIP base tandard) FIP G2976 (SIP Info), SIP using TLS, RFC 6830 SIPS URI SIP support RFC 2820, 29276 (SIP Info), SIP using TLS, RFC 6830 SIPS URI Corrolan KG	Weight	0.8 kg / 1.8 lbs
Betconics cover material Polycarbonate (translucent) Gasket material Silcon rubber Fastening tracket material Silcon rubber Button material J mm / 0.12" Polycarbonate (transparent) Button material J mm / 0.12" Polycarbonate (transparent) Button material Silo m Button materices before failure 300 00 Anechcic Design Open flow anechcic design eliminates "standing waves" Loudspacker poke protection, areal diameter object Stainless steel mesh, acoustically transparent Loudspacker poke protection, areal diameter object Stainless steel mesh, acoustically transparent Loudspacker poke protection, areal diameter object Stainless steel mesh, acoustically transparent Protocols Power one Ethernet (EEE 802.3 e/) Network Access Control (EEE 802.1 h) Management and operation Power one Ethernet (EEE 802.3 e/) Network Access Control (EEE 802.1 h) Management and operation E.g. network test, total transparent SiP support RPC 226 (SIP base standard) RPC 325 (SIP refy RPC 276 (SIP info).SIP using TLS, RPC 5630 SIPS URI SiP support RPC 226 (SIP base standard) RPC 325 (SIP refy RPC 276 (SIP info).SIP using TLS, RPC 5630 SIPS URI Sorong temperature range 40° to 70°	Faceplate material	3 mm / 0.12" PMMA, colour printed on back side
Gasket material Silcone nubber Fastening bracket material Silcone nubber Button material 3 mm / 0.12" Polycarbonate (transparent) Button attriation force 350 gf Button attriation force 300 00 Anechoic Design Open flow anechoic design eliminates "standing waves" Loudspeaker poke protection, large diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, large diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, large diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent Entodspeaker poke protection, small diameter objects Power over Elimeret (IEEE 802.2 al) Network Access Control (IEEE 802.1) ENTODSpeaker poke protection, small diameter objects Egit network test, tone test, status reports SiP support ReC 2332.276 (SIP Info) SIP using TLS, REC 5333 SIPS UBI Diff support ReC 2332.276 (SIP Info) <t< td=""><td>Base / frame material</td><td>3 mm / 0.12" Aluminum alloy - A413.0, AlSi12Fe, painted</td></t<>	Base / frame material	3 mm / 0.12" Aluminum alloy - A413.0, AlSi12Fe, painted
Fatening bracket material SEOC Stell Button material 3 mm / 0 12° Polycarbonate (transparent) Button naterial 300 m/ 0 Button naterial 300 000 Amechoc Design Open flow amechoic design ellminates "standing waves" Loudspacekr poke protection, large diameter object 30 cat aluminum spacek rgille Loudspacekr poke protection, large diameter object Stanieles stell mesh, acoustically transparent NETWORKNO AND PROTOCOLS Po-4 (with Diffser/), SIP, TCP, UDP, HTTPS, NTTP, NTP, STRP, SMMP, ONVIF, COOLPB, NTP NA protocols Power over Ethernol (EEE 802.3 +/) Network Access Control (EEE 802.1) Management and operation Eig network test, ton test, statu resports SIP apport Eig network test, ton test, statu resports DTMF support Eig network test, ton test, statu resports SIP apport RFC 2323, 2976 (SIP Info) DTMF support RFC 2323, 2976 (SIP Info) Parting IP 66, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating MK taster daccording to EN 60529 (applies when mounted in TA-1 back box) K rating MK taster daccording to EN 60529 (applies when mounted in TA-1 back box) K rating MK '10 7'C	Electronics cover material	Polycarbonate (translucent)
Button material 3 mm / 0.12° Polycarbonate (transparent) Button markerial 125 mm Button markerial 350 d7 Button push-opcides before failure 300 000 Anechoic Design Open flow anechoic design eliminates "standing waves" Loudspeaker poke protection, large diameter object 30 cast aluminum speaker grille Loudspeaker poke protection, small diameter object 30 cast aluminum speaker grille Protecols IPv4 (with Diffserv), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP®, NTP Protecols IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP®, NTP Protecols IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP®, NTP Management and operation HPV4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP®, NTP SIP support E.g. network test, tone test, status reports SIP support RC 2sa3, 2976 (SIP Info) EVERONMENT AND COMPLIANCES IFVE Status according to EN 60529 (applies when mounted in TA1 back box) Kr raing IK 08, tested according to EN 60529 (applies when mounted in TA1 back box) Kr raing IK 09, tested according to EN 60529 (applies when mounted in TA1 back box) Kr rai	Gasket material	Silicone rubber
Button travel length 1.25 mm Button scitwation force 350 gf Button push-cycles before failure 300 000 Ancchoic Design Open flow anochoic design eliminates "standing waves" Loudspeaker poke protection, large diameter objects Stainless steel mesh, acoustically transparent NETWORKING AND PROTOCOLS Protection Protocols Power over Ethernet (IEEE 802.3 al /) Network Access Control (IEEE 802.1 x) Management and operation HTTP/ITTES (Web configuration) DMCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions E.g. network test, taton test, status reports SIP support RFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5530 SIPS URI scheme DTMF support RFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5530 SIPS URI scheme PTMF support RFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5530 SIPS URI scheme PTMF support RFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5530 SIPS URI scheme PTMF support RFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5530 SIPS URI scheme DTMF support 1 RFC 3615 (SIP Info)	Fastening bracket material	SECC Steel
Button activation force 350 gf Button puit-bycles before failure 300 000 Anechoic Design Open flow anechoic design eliminates "standing waves" Loudspaces poke protection, large diameter objects 30 casta luminum speaker grille Loudspaces poke protection, small diameter objects Stanless steel mesh, acoustically transparent NETWORKING AND PROTOCOLS Prover over Ethernet (IEEE 802.3 ar.) Network Access Control (IEEE 802.1x) Management and operation MTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions Eg. network test, tast us reports SIP support RFC 2333 (ISI Paters at andard) RFC 2315 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2333 (ISI Paters at andard) RFC 2315 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2333 (ISI Paters at andard) RFC 2315 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2333 (ISI Paters at andard) RFC 2315 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2333 (ISI Paters at andard) RFC 2315 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2334 (ISI Paters at andard) RFC 2315 (SIP r	Button material	3 mm / 0.12" Polycarbonate (transparent)
Button push-cycles before failure 30000 Anechoic Design Open flow anechoic design eliminates "standing waves" Loudspeaker poke protection, large diameter objects 3D cast aluminum speaker grille Loudspeaker poke protection, small diameter objects Stanless steel mesh, acoustically transparent NETWORKING AND PROTOCOLS Protecols IPV4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CColP®, NTP LAN protocols Power over Ethernet (IEEE 802.3 af) Network Access Control (IEEE 802.1 x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI software upgrade. Centralized monitoring. DTMF support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI software upgrade. Centralized monitoring. SIP support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI software upgrade. DTMF support RFC 283, 2976 (SIP Info) EXWRONMENT AND COMPLIANCES IP rating IP rating IP 66, tested according to EN 69529 (applies w	Button travel length	1.25 mm
Anechoic Design Open flow anechoic design eliminates "standing waves" Loudspeaker poke protection, large diameter objects 3D cast aluminum speaker grille Loudspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent NETVORKING AND PROTOCOLS IPv4 (with Diffserv), SIP, TCP, UDP, HTTPS, TTP, RTP, SRTP, DHCP, SNMP, ONVF, CCoIPe , NTP LAN protocols Power over Ethernet (IEEE 802.3 a/) Network Access Control (IEEE 802.1x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions Eg. network test, tone test, status reports SIP support RFC 2836 (SIP base standard) RFC 3315 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2836 (SIP base standard) RFC 3315 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2836 (SIP base standard) RFC 3315 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2836 (SIP base standard) RFC 3315 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2836 (SIP base standard) RFC 3315 (SIP refer) RFC 2976 (SIP Info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2836 (SIP bard 12 to 70 °C Strat	Button activation force	350 gf
Loudspeaker poke protection, large diameter object 3D cast aluminum speaker grille Loudspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent NETWORKING AND PROTOCOLS IPv4 (with Diffser), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP®, NTP LAN protocols Power over Ethernet (IEEE 802.3 arf) Network Access Control (IEEE 802.1x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP Info). SIP using TLS, RFC 5630 SIPS URI socheme DTMF support RFC 2833, 2976 (SIP info) ENVIRONMENT AND COMPLIANCES IP rating IP rating IP-66, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating K 08, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating IP c66, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating IP c66, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating IP c66, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating IP c66, tested according	Button push-cycles before failure	300 000
Loudspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent NETWORKING AND PROTOCOLS Protocols Protocols IPv4 (with Diffserv), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CColP8, NTP LAN protocols Power over Ethernet (IEEE 802.3 arf) Network Access Control (IEEE 802.1x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monoticing. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 2351 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2833, 2976 (SIP info) ENVIRONMENT AND COMPLIANCES IP rating IP rating IP-66, tested according to EN 60529 (applies when mounted in TA-1 back box) IK rating K 08, tested according to EN 60529 (applies when mounted in TA-1 back box) IK rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) IK rating V 07 °C Storage temperature range -40° to 70° C Gorresion Sality mist, tested according to EN60455 Vibration Tested according to EN60455 Vibration Tested ac	Anechoic Design	Open flow anechoic design eliminates "standing waves"
NETWORKING AND PROTOCOLS Protocols IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCOIP®, NTP LAN protocols Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2833, 2976 (SIP info) ENVIRONMENT AND COMPLIANCES Prevince automatic in TA-1 back box) K rating IK 68, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 60529 (applies when mounted in TA-1 back box) <	Loudspeaker poke protection, large diameter object	3D cast aluminum speaker grille
Protocols IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIE, CCoIP® , NTP LAN protocols Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x) Management and operation HTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 2351 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme DTM F support RFC 2351 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme DTM F support RFC 2353, 2976 (SIP info) Environment And COMPLIANCES IP rating IP rating IP-66, tested according to EN 60529 (applies when mounted in TA-1 back box) Kr rating IK 08, tested according to EN 60529 (applies upper 40° to 70° C Storage temperature range 40° to 70° C Realtive humidity <95% not condensing	Loudspeaker poke protection, small diameter objects	Stainless steel mesh, acoustically transparent
LAN protocolsPower over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)Management and operationHTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring.Advanced supervision functionsE.g. network test, tone test, status reportsSIP supportRFC 2361 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info). SIP using TLS, RFC 5630 SIPS URI schemeDTMF supportRFC 2383, 2976 (SIP info)EN/RONMENT AND COMPLIANCESIP ratingIP-66, tested according to EN 60529 (applies when mounted in TA-1 back box)IK ratingK 08, tested according to EN 62522Operating temperature range-40° to 70° CReative humidity<95% not condensing	NETWORKING AND PROTOCOLS	
Management and operationHTTP/HTTPS (Web configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring.Advanced supervision functionsE.g. network test, tone test, status reportsSIP supportRFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI schemeDTMF supportRFC 2833, 2976 (SIP info)ENVIRONMENT AND COMPLIANCESIP ratingIP-66, tested according to EN 60229 (applies when mounted in TA-1 back box)IK ratingIK 08, tested according to EN 60229 (applies when mounted in TA-1 back box)IK ratingIK 08, tested according to EN 60229 (applies when mounted in TA-1 back box)Corrosion40° to 70° CStorage temperature range-40° to 70° CRealtive humidity< 95% not condensing	Protocols	IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, ONVIF, CCoIP® , NTP
Management and operation monitoring. Advanced supervision functions E.g. network test, tone test, status reports SIP support RFC 3251 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme DTMF support RFC 2833, 2976 (SIP info) ENVIRONMENT AND COMPLIANCES IP refer, SRC 2833, 2976 (SIP info) Environment and operating temperature range IP refer, tested according to EN 60529 (applies when mounted in TA-1 back box) K rating IK 08, tested according to EN 62262 Operating temperature range -40° to 70° C Storage temperature range -40° to 70° C Realtive humidity < 95% not condensing	LAN protocols	Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
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IK rating IK 08, tested according to EN 62262 Operating temperature range -40° to 70° C Storage temperature range -40° to 70° C Realtive humidity < 95% not condensing	ENVIRONMENT AND COMPLIANCES	
Operating temperature range-40° to 70° CStorage temperature range-40° to 70° CRealtive humidity< 95% not condensing	IP rating	IP-66, tested according to EN 60529 (applies when mounted in TA-1 back box)
Storage temperature range -40° to 70° C Realtive humidity < 95% not condensing	IK rating	IK 08, tested according to EN 62262
Realtive humidity < 95% not condensing	Operating temperature range	-40° to 70° C
CorrosionSalty mist, tested according to EN60945VibrationTested according to EN60945UV-resistantYESEMCCE and FCC Part 15 EN 50121-3-2 Railway application EN 50121-4 Railway application UN Regulation 10, revision 4 + Corr.1 + Amend.1CompliancesIEC/EN 60945 Marine Equipment IEC/EN61000-6-1 and IEC/EN61000-6-3 (light industry). IEC/EN 50155 Railway Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch.CertificationsUL 60950-1, cUL 60950-1, CB to IEC 60950-1OTHER SPECIFICATIONSIP adress informationIP adress informationSpeaks IP address after system bootButton lifetime> 1000 000 cycles	Storage temperature range	-40° to 70° C
Vibration Tested according to EN60945 UV-resistant YES EMC CE and FCC Part 15 EN 50121-3-2 Railway application EN 50121-4 Railway application UN Regulation 10, revision 4 + Corr.1 + Amend.1 Compliances IEC/EN 60945 Marine Equipment IEC/EN61000-6-1 and IEC/EN61000-6-3 (light industry). IEC/EN 50155 Railway Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch. Certifications UL 60950-1, cUL 60950-1, CB to IEC 60950-1 OTHER SPECIFICATIONS Speaks IP address after system boot IP adress information Speaks IP address after system boot Button lifetime > 1000 000 cycles	Realtive humidity	< 95% not condensing
UV-resistant YES EMC CE and FCC Part 15 EN 50121-3-2 Railway application EN 50121-4 Railway application UN Regulation 10, revision 4 + Corr.1 + Amend.1 Compliances IEC/EN 60945 Marine Equipment IEC/EN61000-6-1 and IEC/EN61000-6-3 (light industry). IEC/EN 50155 Railway Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch. Certifications UL 60950-1, cUL 60950-1, CB to IEC 60950-1 OTHER SPECIFICATIONS IP adress information Speaks IP address after system boot > 1000 000 cycles	Corrosion	Salty mist, tested according to EN60945
EMCCE and FCC Part 15 EN 50121-3-2 Railway application EN 50121-4 Railway application UN Regulation 10, revision 4 + Corr.1 + Amend.1CompliancesIEC/EN 60945 Marine Equipment IEC/EN61000-6-1 and IEC/EN61000-6-3 (light industry). IEC/EN 50155 Railway Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch.CertificationsUL 60950-1, cUL 60950-1, CB to IEC 60950-1OTHER SPECIFICATIONSIP adress informationSpeaks IP address after system bootButton lifetime> 1000 000 cycles	Vibration	Tested according to EN60945
EMC 4 + Corr.1 + Amend.1 Compliances IEC/EN 60945 Marine Equipment IEC/EN61000-6-3 (light industry). IEC/EN 50155 Railway Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch. Certifications UL 60950-1, cUL 60950-1, CB to IEC 60950-1 OTHER SPECIFICATIONS IP adress information Speaks IP address after system boot > 1000 000 cycles	UV-resistant	YES
Compliances Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal coating. Requires use of EN 50155 approved PoE switch. Certifications UL 60950-1, cUL 60950-1, CB to IEC 60950-1 OTHER SPECIFICATIONS IP adress information Speaks IP address after system boot > 1000 000 cycles	EMC	
OTHER SPECIFICATIONS IP adress information Speaks IP address after system boot Button lifetime > 1000 000 cycles	Compliances	Application. *IEC/EN 50486 Equipment for use in audio video door-entry systems. *With additional conformal
IP adress information Speaks IP address after system boot Button lifetime > 1000 000 cycles	Certifications	UL 60950-1, cUL 60950-1, CB to IEC 60950-1
Button lifetime > 1000 000 cycles	OTHER SPECIFICATIONS	
	IP adress information	Speaks IP address after system boot
Country of manufacture Poland	Button lifetime	> 1000 000 cycles
	Country of manufacture	Poland

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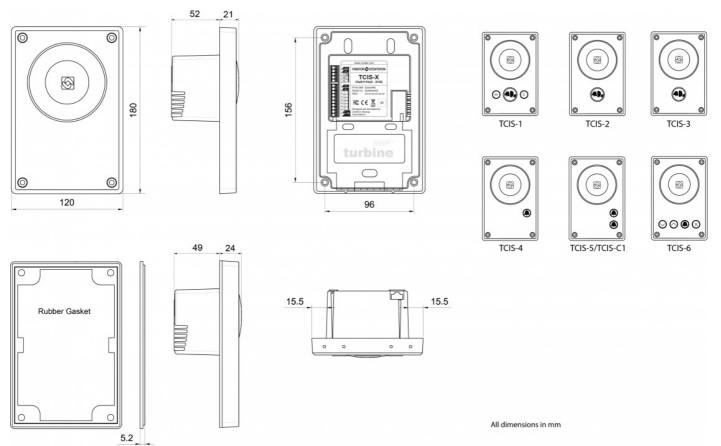
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TECHNICAL DIMENSIONS



ACCESSORIES



TA-1

Item number: 1008140010



TA-2

Item number: 1008140020







TA-5 Item number: 1008140050

TA-18 Item number: 1008140180

TA-14 Item number: 1008140140



TOUCHLESS SENSOR TURBINE ADAPTER PLATE Item number: 2390020100



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Item number: 1072160000

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