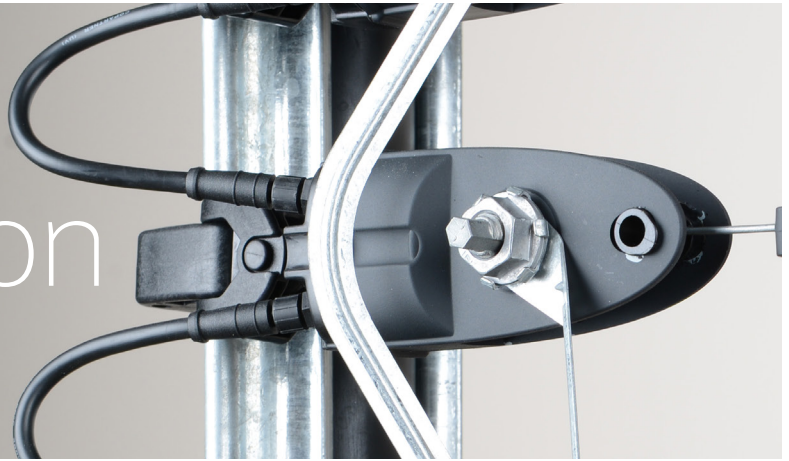


# Gallagher Z10 Tension Sensor



*The Z10 Tension Sensor measures the mechanical disturbance of a tensioned fence wire to raise an alarm if a wire is disturbed through attack. It continuously measures and reports wire tension in real time, to identify when maintenance is required or the fence has been damaged.*

## *Key features and benefits:*

- Continuous, real-time, wire tension measurement detects the actual tension in kg (lb)
- Able to detect both fast and slow attacks
- Attack alarm based on single or multi sensors
- Differentiation between environmental changes and attacks
- Self aligning to optimize performance and to allow for variation in mounting angle
- 5kg to 60kg continuous operating tension range
- Overload protection to 200kg
- High and low wire tension maintenance alarms
- Fast installation using new Pivoting Mount Technology as well as plugged and IDC connectors
- Retro-fit to existing Gallagher perimeter security systems
- Fence and wiring design utility for accurate fence design
- HBUS communication protocol, for compatibility with latest Gallagher technologies
- Fully integrated with Gallagher Command Centre v7.10 and later
- Stand alone Z10 system design utility



Sensor	Voltage	18-36V DC (Supplied via Z40 voltage booster)
	Power Consumption	82mA (standby) / 115mA (peak)
Z40 Voltage Booster	Voltage - Input	13.6V DC
	Voltage - Output	36V DC
Communication	Between Z10 and Gallagher Controller 6000	HBUS RS485 at up to 1Mbps per second
	Wiring Format - Data	2 wires using Cat5e (2 wire + ground)
	Wiring Format - Power	4 wires (2x2) using Cat5e (or as per design utility)
	Encryption Level	HBUS 128 Bit AES
Cable Specification	Z11 cable adapter to Gallagher Controller 6000	Cat5e outdoor rated cable (G10600)
Device Limits	Maximum number of Z10 Tension Sensors per Gallagher Controller 6000	80*
	Maximum distance between Gallagher Controller 6000 and Z10 Tension Sensor	500m*
<i>* Use Gallagher design utilities to determine sensor layout design</i>		
	Minimum Operating Tension	7kg (15.4lb)
	Maximum Operating Tension	60kg (132.2 lb)
	Safe Maximum Instantaneous Tension	200kg (440.9 lb) (STP)
	Humidity	100% non-condensing
Temperature Range	-40°C to 60°C (-40°F to 158°F)	
Environmental Protection Rating	IP68	
Impact Rating	IK07 (STP)	
Mounting Range	Vertical range 91mm pitch	±45° from horizontal
	Vertical range 60mm pitch	±14° from horizontal
	Horizontal range	+68° from straight fence (internal corners) -12° from straight fence (external corners)
Dimensions (Including attached bracket but excluding Z11 cable)	Height x Width x Depth	56 x 176 x 50mm (2.2 x 6.9 x 1.9 inches)

## PART NUMBERS

Z10 Tension Sensor	G13110
Z11 Cable	G13122
Z12 Cable adapter	G13125
Z11 End of line	G13126
240 Voltage booster	G13310
<i>Compatible with:</i>	
2.0mm HT steel wire	G90201
2.5MM HT steel wire	G90200

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