



ITE 220

Integrated Tactile Equipment Fault Monitor & Remote Enable

The Radix Tactile Crossing Indicators use a rotating knurled cone to advise people who are blind or partially sighted when it is safe to proceed at signal controlled pedestrian crossings.

The cone protrudes from the base of the pedestrian push button housing and turns only when the "Steady Green Man" is showing. The control electronics maintain rotational speed over a wide range of supply voltage and applied torque. A sensitive drive 'cut-out' stops movement immediately an obstruction, such as a tangled glove, is detected.



ITE220 Integrated Tactile Equipment

ITE 220 Features:

- + *Fault Monitor Output*
- + *Remote Enable Input*
- + *ELV Operation (48V)*
- + *Universal Capability*
- + *Low Power*
- + *Proven Technology*
- + *Integrated Design*
- + *Easy Installation*
- + *Patent GB2379287.B*
- + *HA Approval Ref:*
RADX AP03/791
- + *RoHS Compliant*

Specification: ITE220

Radix Tactile Indicators are typically used where the audible bleeper could lead to dangerous confusion, or where it would cause a noise nuisance. Several quick and easy-to-fit models are available, each suited to specific installation requirements.

The ITE220 integrated control and motor/cone assembly is specifically designed for low voltage, **48V ELV** Signal **Installations of all types** where **fault monitoring** is required. This unit simply fits into the push button assembly “bleeper” space and requires just a two-wire connection in parallel with the Green Man signal for its basic operation. For ease of fitment a sealing grommet and an integral self-centering collet are included to ensure that the cone is free to rotate without rubbing on the casing.

For sites where there is no flashing green man period a link can be fitted across the “Enable Link” terminals. For Pelican Crossings or other sites where there are times when the green man is lit but the cone must not turn, this link must be replaced by a remote output from the controller that is only in the conducting state when it is safe for the cone to turn. Care must be taken to ensure these connections are correctly polarised.

The Fault Monitor output is in the conducting state only whilst the cone is being driven and is able to rotate. It will thus report power failure, open/short circuit, stall and “no enable” conditions as a fault.

Patent Numbers: GB.2222011.B; GB.2379287.B; GB 2431019.B.



ITE220	
TYPICAL APPLICATIONS	Pelican, Junction, Puffin & Toucan Controllers
ELECTRICAL	
SUPPLY VOLTAGE NOMINAL AT 50HZ	48V
SUPPLY RANGE	21.0V to 52.8V
NOMINAL POWER REQUIREMENT (48V Stalled)	4 VA
INTERFACES	
“ENABLE” INPUT	25 to 53V dc open cct. 1 to 3mA short cct.
“FAULT OUTPUT”	Will sink up to 50mA and withstand up to 75V dc
MECHANICAL	
ROTATIONAL SPEED	60 rpm ± 20%
STOPPING TORQUE	Less than 0.08 Nm
UNPOWERED SPIN TORQUE	Less than 0.02 Nm
ENVIRONMENTAL	
OPERATING TEMPERATURE	-15 °C to +70 °C
STORAGE TEMPERATURE	-20 °C to +80 °C
PHYSICAL	
SIZE ITE220	58 x 43 x 113 mm incl. cone
MIN SHIPPING PACK QUANTITY	Two
PACK SHIPPING SIZE	215 x 165 x 90 mm
PACK SHIPPING WEIGHT	0.9 kg

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Radix Tactile Crossing Indicators CU/TU100 & ITE200



The Radix Tactile Crossing Indicators use a rotating knurled cone to advise people with impaired vision when it is safe to proceed at signal controlled pedestrian crossings.

The cone protrudes from the base of the pedestrian push button housing and turns only when the "Steady Green Man" is showing. The control electronics maintain rotational speed over a wide range of supply voltage and applied torque. A sensitive drive 'cut-out' stops movement immediately an obstruction, such as a tangled glove, is detected.

THE RADIX RANGE OFFERS THE FOLLOWING FEATURES AND BENEFITS:

- Unambiguous 'cross' indication for the visually impaired
- Suitable for use at Junction, Pelican, Puffin and Toucan Crossings
- Optimised models for conventional and near-side signals
- Compact integrated design
- Very easy installation or retrofit
- Extra-low power consumption
- Proven, reliable technology
- Patented electronic control*
- Fully Type Approved
- RoHS Compliant



ITE200 Integrated Tactile Equipment



TU100 Motor/Cone Assembly and CU100 Control Unit

Specifications (CU/TU100 & ITE200 only)

Radix Tactile Indicators are typically used where the audible bleeper could lead to dangerous confusion, or where it would cause a noise nuisance. Several quick and easy-to-fit models are available.

The ITE200 integrated control and motor/cone assembly** is specifically designed for low voltage, 48V Near Side Signal installations where no "Flashing Green Man" is used. This unit simply fits into the "bleeper" space and requires just a two-wire connection in parallel with the Green Man signal.

Both the ITE200 indicator and the TU100 motor are provided with an integral self-centering collet and a sealing grommet for simple and durable fitting. The Control Unit CU100 is normally housed in a convenient nearby signal head, drawing its power from the already "safe and interlocked" Green Man signal. For Pelican type signals, where the Green Man has a flashing period, an additional "audible indicator" signal is used to ensure cone rotation during the Steady Green Man period only.

The patented electronic control circuit* requires such low power that it does not affect lamp monitoring circuits and can operate over the full dimmed or undimmed voltage range.

* Patent No: GB.2222011.B

** Patent No: GB.2379287.B; other patents pending.



Model	ITE200	CU/TU100
TYPICAL APPLICATION	Puffin & Toucan Near Side Signal Crossings	Pelican & Junction Controllers
Electrical		
SUPPLY VOLTAGE NOMINAL AT 50HZ	48V	230V
SUPPLY RANGE	21.0V to 52.8V	104.4V to 253.0V
NOMINAL POWER REQUIREMENT	3.5 VA	7.0 VA
"AUDIBLE" INPUT	Not Used	9 to 30V dc; 2.5 KΩ
Mechanical		
ROTATIONAL SPEED	60 rpm ± 20%	
STOPPING TORQUE	Less than 0.08 Nm	
UNPOWERED SPIN TORQUE	Less than 0.02 Nm	
Environmental		
OPERATING TEMPERATURE	-15 °C to +70 °C	
STORAGE TEMPERATURE	-20 °C to +80 °C	
Physical		
SIZE ITE200	58 x 43 x 113 mm incl. cone	-
SIZE CU100	-	140 x 65 x 55 mm
SIZE TU100	-	40 mm dia x 110 mm incl. cone
MIN SHIPPING PACK QUANTITY	Two	Single set
PACK SHIPPING SIZE	215 x 165 x 90 mm	215 x 165 x 90 mm
PACK SHIPPING WEIGHT	0.9 kg	1.1 kg

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