12-240V d c
24-240V a c

30V dc 100mA

240V ac 3A

IP65

Capacitive

### DIMENSIONS

Output LED
(Red or green, depending upon condition)

Thread: ISO constant pitch
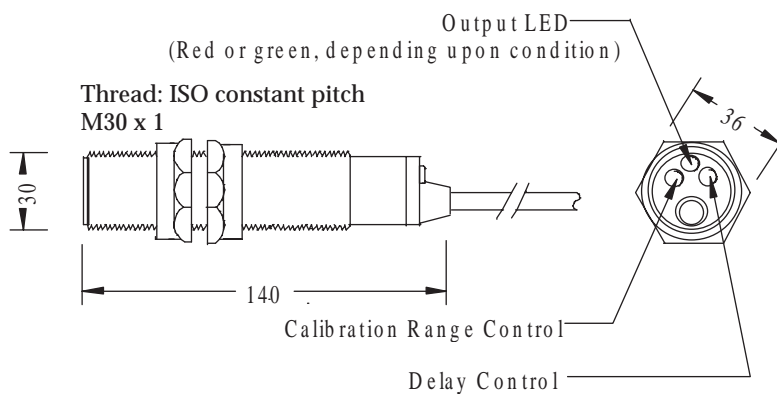M30 x 1

30

36

140

Calibration Range Control

Delay Control

**UC1TR** (for UC1TO see overpage)

*PROGRAMMABLE VERSION*
**UC1TR**

*STANDARD VERSION*
**UC1TO**

The Minicap series offers both a low cost high reliability sensor or a fully programmable universal voltage device with an on board microprocessor to control all output mode and timing functions.

The standard (non-programmable) UC1TO unit operates on 10-30v dc and provides a fully protected opto-isolated output. The multifunctional (programmable) UC1TR incorporates a universal voltage power supply operating on 12-240v dc, 24-240v ac and has a changeover relay output.

User programmable features include a selection of output energised or de-energised, time delay

on make, break or both and selectable time ranges. Programming is easily carried out using a simple step sequence. The programme, once set, is stored indefinately but can be reprogrammed if necessary.

A two colour LED gives indication of supply on, material detected and timing of material arriving and leaving. Sealed controls allow adjustment of sensitivity and time delays (where fitted), housed in a DIN standard 30mm enclosure.

The Minicap is fully sealed and encapsulated to give reliable operation in the most arduous industrial environments.

✳ *User programmable time delays and operating mode.*

✳ *Universal voltage 12-240v dc, 24-240v ac or 10-30V dc.*

✳ *Relay or Opto-isolated output.*
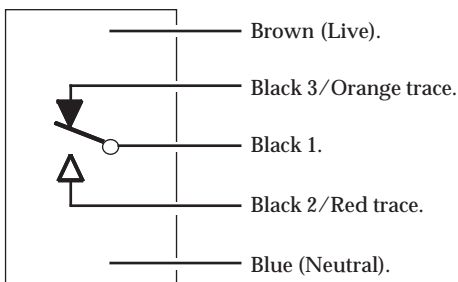
✳ *High sensitivity, adjustable to suit applications.*

## ▷ SYNATEL

# SPECIFICATION

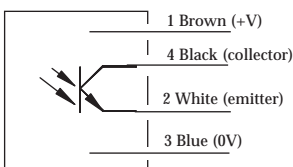| | UC1TR PROGRAMMABLE | UC1TO LOW COST |
|---|---|---|
| **SUPPLY** | 12-240V dc.<br>24-240V ac. | 10-30V dc. |
| **CURRENT CONSUMPTION** | .5VA. | 30mA. |
| **OPERATING TEMPERATURE** | -10°C to +50°C. | -10°C to +50°C. |
| **OPERATING RANGE** | Typically 25mm. | Typically 25mm. |
| **I.P. RATING** | IP65. | IP65. |
| **OUTPUT** | 3A 240V ac SPCO Contact. | Protected<br>Opto-isolator<br>rated 100mA 30V dc. |
| **OUTPUT STATE** | Selectable during programming. | Selectable by supply<br>reversal. |
| **TIME DELAY** | 0-10 Sec or 0-1 Min on Energise,<br>De-energise or both -<br>Selectable during programming<br>mode. | Not Available. |
| **CABLE** | 2 Metre 5 Core PVC. | 2 Metre 4 Core PVC. |
| **SENSITIVITY** | 0.2-10 Picofarad. | 0.2-10 Picofarad. |
| **LED INDICATION** | Dual RED/GREEN LED.<br>RED = Detect.<br>GREEN = Non-detect.<br>FLASHING RED = Timing.<br>Material arriving.<br>FLASHING GREEN = Timing.<br>Material leaving. | Red LED Indicating Output State.<br>LED 'ON' with Output Energised. |
| **WEIGHT** | 350 Gms. | 320 Gms. |

**HOW TO ORDER:-**
SPECIFY **UC1TR** FOR PROGRAMMABLE MODEL OR **UCITO** FOR STANDARD MODEL.

## CONNECTIONS

- Brown (Live).
- Black 3/Orange trace.
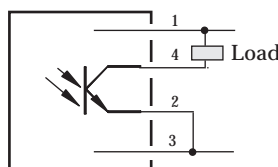- Black 1.
- Black 2/Red trace.
- Blue (Neutral).

**UC1TR**

NOTE: Connections shown with output de-energised. UC1TO can have supply wires reversed to invert output state. UC1TR output state is programmable.
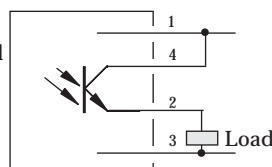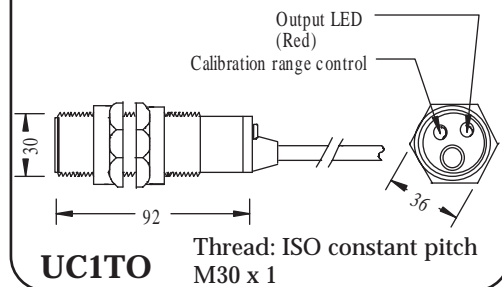
- 1 Brown (+V)
- 4 Black (collector)
- 2 White (emitter)
- 3 Blue (0V)

**UC1TO**  npn  Typical Connections  pnp

1
4 Load
2
3

1
4
2
3 Load

## DIMENSIONS

Output LED (Red)
Calibration range control

30
92
36

**UC1TO**

Thread: ISO constant pitch M30 x 1

Detection & Control
in action