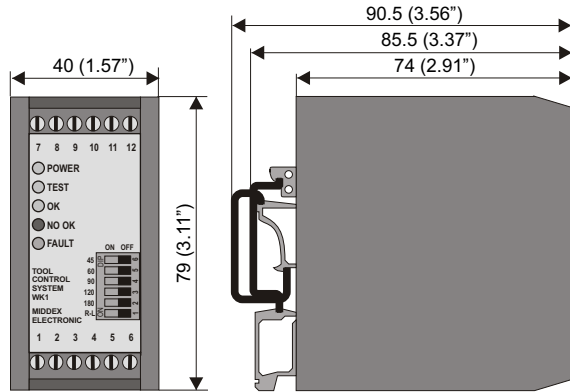


# WK1 Technical Data



Caring Beyond Our Products

## Controller WK1 (item #9011)

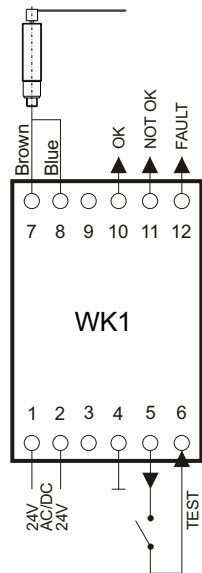


Protection: IP20  
 Mounting: EN rail (DIN rail)  
 Supply voltage  $U_b$ : 20-28VDC/15-22VAC  
 Power draw: .25-.45A (output at .1A)  
 Output current load: 100mA maximum (solid state)  
 Temperature range: 0° to +50°C (32° to 122°F)  
 TEST signal input: 8 to 28VDC  
 TEST input resistance: 4K7

### Important to know:

The WK1 system is on order status and is replaced with the WK2.

The WK1 from Middex allows a PLC to take control of the duration of the output signals. As long as the TEST signal is active, the resulting outputs remain high. Once the TEST signal drops, the output signals drop as well. The WK1 outputs are protected. Therefore outputs from several units may be combined to a single input at the PLC. However, only the NOT OK outputs should be combined, since a single unit detecting a broken tool will trigger a machine stop. Combining OK signals does not work as only one unit would be needed with an OK signal to continue the machining cycle.

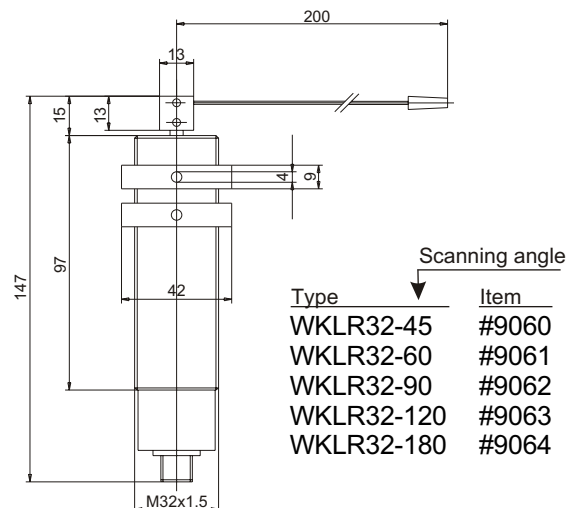
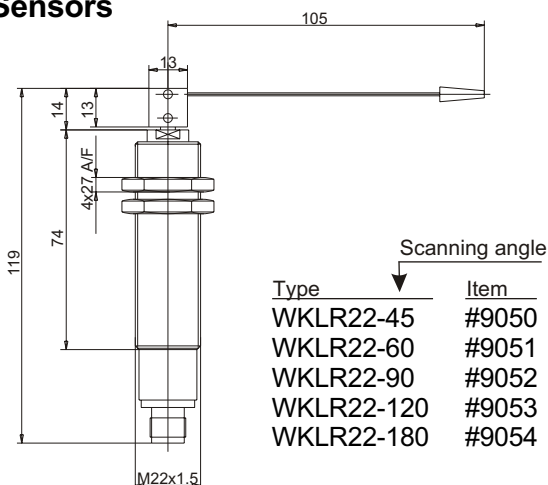


Wiring details

### Typical cycle times

Scanning angle 45°: 300ms  
 Scanning angle 90°: 400ms  
 Scanning angle 180°: 600ms

## Sensors



All text, technical data, measurements and samples were prepared thoroughly. However Middex Electronic and CIRO Products Ltd. cannot be held liable for errors and omissions. Middex Electronic and CIRO Products Ltd. reserve the right to improve or change the design of hard and software and make changes to the technical documentation without further notice.