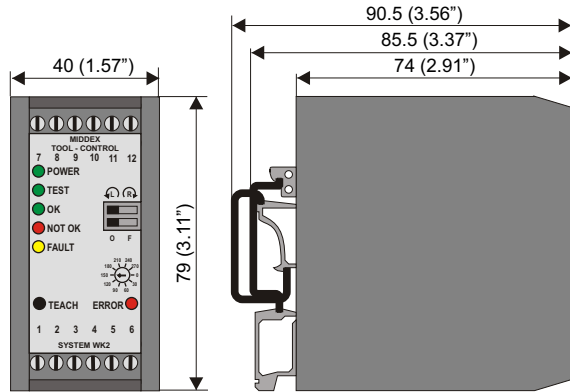


WK2 Technical Data

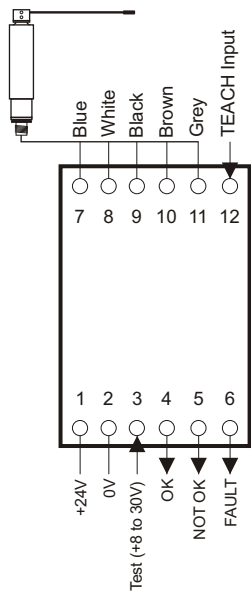


Caring Beyond Our Products

Controller WK2 (item #9400)



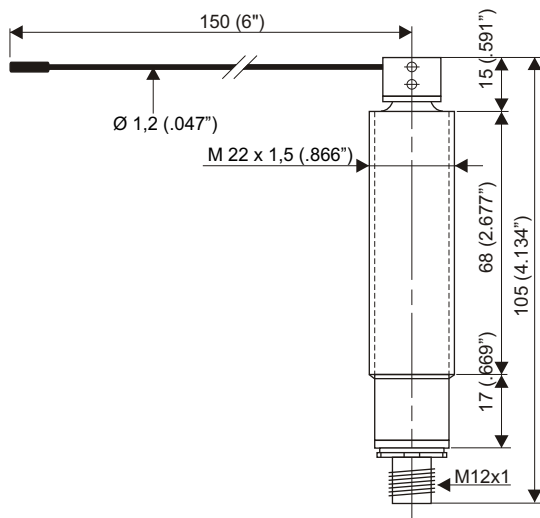
Protection: IP20
 Interference susceptibility: to EMV specs, carries CE logo
 Mounting: EN rail (DIN rail)
 Supply voltage U_b : 20-35VDC
 Power draw: typically 5W (no output loads)
 Output (# 4, # 5, # 6): U_b -2V (typically) solid state
 Output current load: 100mA maximum
 Temperature range: 0° to +50°C (32° to 122°F)
 TEST signal voltage (high): 10 to 35VDC
 TEST signal voltage (low): -1 to +2VDC
 Input resistance TEST: approximately 2.2k



Wiring details

Important to know:
 The WK2 system 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 WK2 outputs are short 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.

Sensor WK2 (item #9401)



Typical cycle times

Scanning angle 30°: 150ms
 Scanning angle 90°: 220ms
 Scanning angle 180°: 280ms

Sensor body: Special steel chromed
 Protection: IP68
 Protection connector plug: IP67
 Interference susceptibility: to EMV specs, carries CE logo
 Probe length: standard 150mm (6")
 Scanning angle: maximum 270° in both directions
 Scanning: potential free
 Smallest tool diameter: approximately 0.3mm
 Temperature range: 0° to +70°C (32° to 158°F)
 Maximum shaft loads: radial 100N, axial 5N

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.