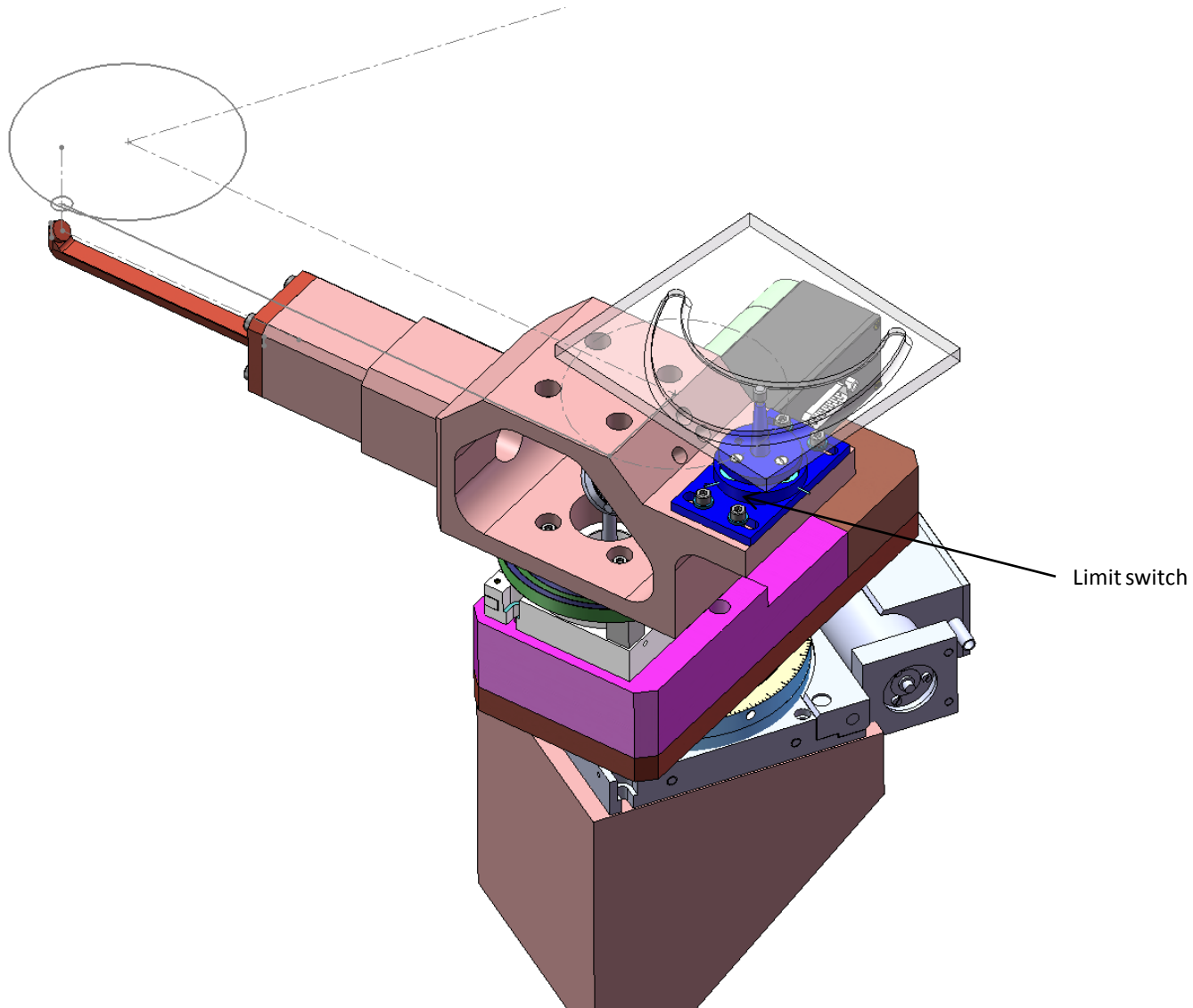


# Limit switch with direction indicator



A single custom Device is guiding the arm through its allowed path after detecting software error.



# Limit switch with direction indicator



The device is a wobbler limit switch that gives direction indication.

The wobbler is composed of a Ball Bearing Track Roller (Mc Master 3668K2), a steel shaft mounted on three compression springs, resting on 3 load cells. The load cells give direction and distance measurements.

## Operation:

Shortly after the arm deviates from its allowed path, the roller will contact the custom track, forcing the spring mounted wobbler base to exercise a pressure on a one or two of the load cells, signaling a trajectory error.

Retraction can then be safely done by rotating the crank motor in any direction and rotating the Lever arm in accordance with load cells signals.

