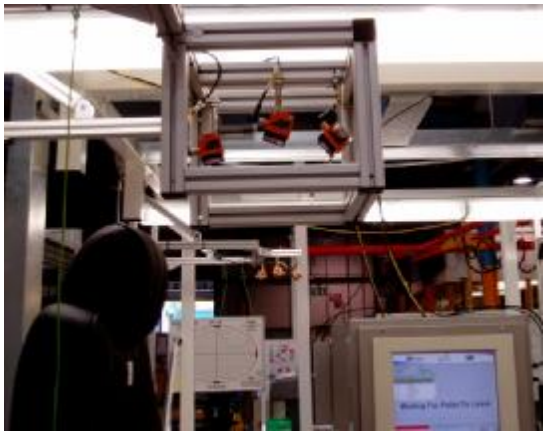
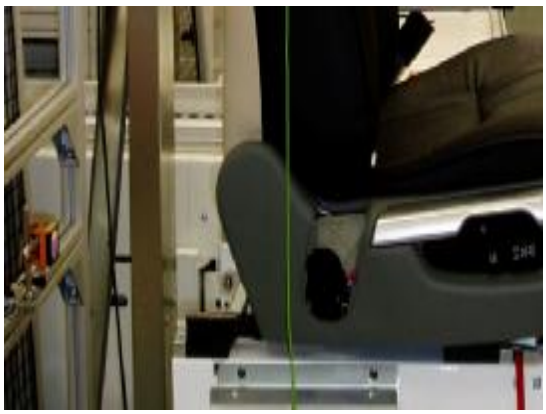
Application Report

Site	Lear (Coventry)	**ifm Contact**	Ismail Bhika
Machine	Landrover Seat Assembly	**Contact**	Steve Hayes (Sorion)
Duration of Project	3 Months	**Date**	05-Oct-06

OEM involved
Sorion
Part Numbers
O1D100 **E10901** **E2D101**
Quantity
30





Application

The application was to detect various types and colours of fabric on vehicle seats. In this case it was Landrover & Jaguar car seats. Each seat has electrical controls for adjusting the recline, tilt, headrest adjustments and forward reverse movements, which need to be tested manually by an operator. To make sure that this test has been done and in a correct manner Sorion needed to monitor the distance of travel and the speed of travel and produce a pass or fail report.

ifm Solution

Sorion had been using Baluff sensors prior to ifm on similar applications. They often came across a problem when detecting green coloured leather seats and also the distance was very short at only 500mm.
The first problem was to reliably detect green, and then be within the accuracy required for the distance of travel. The O1D100 (PMD) was the most reliable and effective sensor for Sorion to use.
They mount 4 O1D100 per test station and because of the a standard 10M range they can mount the sensor further back to avoid any collision.
Sorion do not use the switch outputs, only the analogue signal are required for their system.

Larger Pictures