Gantries Safe distance Apart

Un-polarised beam misses reflector and bounces off gantry. Will not activate sensor
When gantries close to the “alarm distance” the beam hits reflector it is polarised and reflected straight back to sensor which is activated.

Reflectors are specially engineered to reflect the beam directly to the sensor pretty well regardless of the angle of the reflector to the sensor, which is why this method works.
A length of reflector is required so that the beam still hits the reflector if the gantry overruns and goes past the trigger distance.