

# KEMET, QMS, SMD Directional Motion Detection with Fresnel Lens Evaluation Kit, Infrared, I<sup>2</sup>C Communication Compatible, Small SMD Package, High Dynamic Range



General Information	
Series:	QMS
Type:	Motion Detection
Style:	Connector
Description:	Evaluation Kit
Kit Contains:	USEQMS directional motion sensor kit, sensor USEQMSEA221680, USB communications cable
RoHS:	With Exemptions
REACH:	SVHC (PZT – CAS 12626-81-2)
SCIP Number:	4bbe8810-62a4-426f-9a2e-98d9d0d9acfe
Qualifications:	REACH

Packaging Specifications	
Packaging:	Cardboard Box
Packaging Quantity:	1
Weight:	300 g

Specifications	
Temperature Range:	-40/+85°C
Miscellaneous:	SMD directional motion detection with fresnel lens evaluation kit, including 1 QMS sensor
Power Supply Voltage:	1.75 – 3.6 V
Current:	1 – 23 $\mu$ A (Supply Current Typical)
D*:	$5.5 \times 10^8$ cm sqrt (Hz)/W
NEP:	$0.4 \times 10^{-10}$ W/sqrt (Hz)
Time Constant:	10 ms (10 – 20 Hz peak)
Field of View:	90 degrees
Element Size:	4 x 0.057 mm <sup>2</sup> (4 pixel)
Filter Aperture:	d = 1.65 mm

For additional sources of information, please refer to <https://www.kemet.com/en/us/sensors/environmental-sensors.html>