It is well known that the independence complex of any matroid without coloops is homotopy equivalent to a wedge of $k > 0$ equidimensional spheres. We prove that if the dimension and the number of spheres is fixed, then only finitely many such independence complexes exist. This counterintuitive property leads to new structural questions such as upper and lower bound theorems/conjectures for matroids based on the two parameters mentioned. (Received September 11, 2018)