openNMS

openNMS - Read a NanoFocus NMS file or a NanoFocus SMS file.

```
Syntax:
  [s,Info] = openNMS(Datei)
  [s,Info] = openNMS(Datei,SMSindex)

Parameters:
  Datei - filename of NMS, OMS or SMS file
  SMSindex - 2-Element vector with index of the image to read
             from an sms file: [ix, iy]. Index starts at [1,1]

Result structure:
  s - Surface data structure with following fields:
    s.z       - M x N double matrix containing the depth values
                in micro meter
    s.u       - 1 x N vector containing the u-coordinates in
                micro meter for each row in z
    s.v       - M x 1 vector containing the v-coordinates in
                micro meter for each columnb in z
    s.r       - M x N matrix of UINT8 containing the reflection
                data. Values >0 denote valid pixels
    s.offsetu - double scalar containing the offset in micro
                meter for the u-coordinates
    s.offsetv - double scalar containing the offset in micro
                meter for the v-coordinates
    s.offsetz - double scalar containing the offset in micro
                meter for the z-coordinates
    s.comment - String array containing the files comment field
  Info - Info structure
      .filename - Filename of the file just read
      .nx: 1 - number of measurements in x direction for
               SMS-files
      .ny: 1 - number of measurements in y direction for
               SMS-files
      .ix: 1 - index of the read measurements in
               x direction in SMS-files
      .iy: 1 - index of the read measurements in
               y direction in SMS-files
```