[85]:
```
model = Sequential()
model.add(Conv2D(16, (2, 2), activation = 'relu', padding = 'same',
                 input_shape = X_train.shape[1:]))
model.add(MaxPool2D(pool_size = (2, 2), strides = 2, padding = 'valid'))
model.add(Flatten())
model.add(Dense(1, activation = 'sigmoid'))

opt = keras.optimizers.Adam(learning_rate=0.0001)

model.compile(optimizer = opt,
              loss = 'binary_crossentropy',
              metrics = 'accuracy')
print(model.summary())
```

```
Model: "sequential_15"
_________________________________________________________________
Layer (type)                 Output Shape              Param #
=================================================================
conv2d_15 (Conv2D)           (None, 81, 202, 16)       80
_________________________________________________________________
max_pooling2d_15 (MaxPooling (None, 40, 101, 16)       0
_________________________________________________________________
flatten_15 (Flatten)         (None, 64640)             0
_________________________________________________________________
dense_15 (Dense)             (None, 1)                 64641
=================================================================
Total params: 64,721
Trainable params: 64,721
Non-trainable params: 0
_________________________________________________________________
None
```

Visualize Model

[86]:
```
plot_model(model, show_shapes=True, show_layer_names=True)
```

[86]: