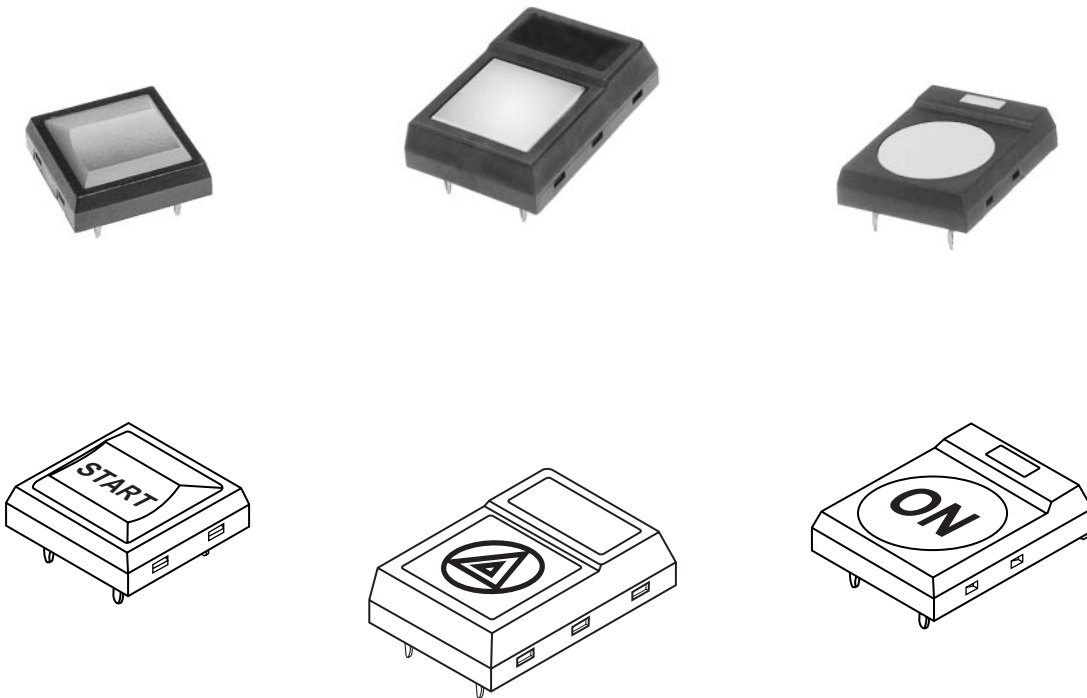


# JF Series Legend Packet

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The primary purpose of this Legend Packet is to let our customers know that NKK Switches provides full support regarding your legending requirements. The packet is designed to provide information to make your legending choices easy and concise, and to let you know that our availability can range from answering a few questions to guiding you through the entire process. Feel free to acquaint yourself with the following pages specific to your applications, then contact us and let us know how we may be of further assistance. We look forward to serving all your legending needs.

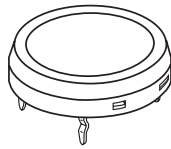


7850 East Gelding Drive • Scottsdale, Arizona 85260  
Phone: (480) 991-0942 • Fax: (480) 998-1435 • [www.nkkswitches.com](http://www.nkkswitches.com)

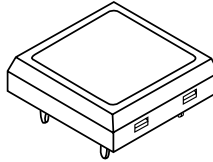


## Nonilluminated

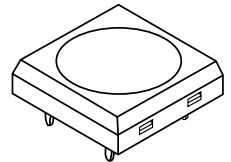
Round Housing **C**  
Round Actuator **2**



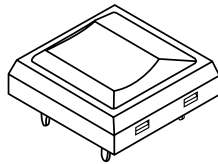
Square Housing **S**  
Square Actuator **1**



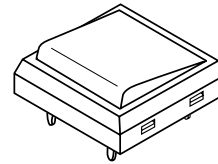
Square Housing **S**  
Round Actuator **2**



Square Housing **S**  
Sculptured Actuator **3**



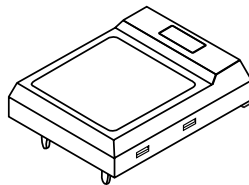
Square Housing **S**  
Piano Actuator **4**



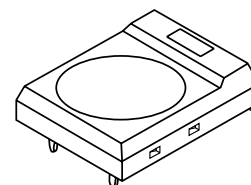
Note: Legend would appear on actuator.

## Illuminated

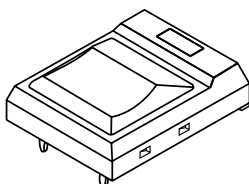
Spot Illumination **R**  
Square Actuator **1**



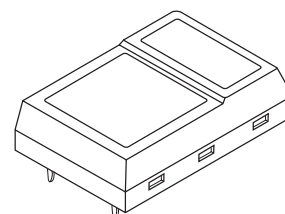
Spot Illumination **R**  
Round Actuator **2**



Spot Illumination **R**  
Sculptured Actuator **3**



Full Face Illumination **A**  
Square Actuator **1**



Note: Legend would appear on actuator; on A1, legend may appear on legend block and /or actuator.

### Orientation of Legends in Relation to Terminals - Nonilluminated

	Round Housing Round Actuator	Square Housing Square Actuator	Square Housing Round Actuator	Square Housing Sculptured Actuator	Square Housing Piano Actuator
<b>1</b> Term. Nos. 3 & 1 Top					
<b>2</b> Term. Nos. 3 & 1 Right Side				Not Available	Not Available
<b>3</b> Term. Nos. 3 & 1 Bottom				Not Available	Not Available
<b>4</b> Term. Nos. 3 & 1 Left Side				Not Available	Not Available

### Orientation of Legends - Illuminated

	Spot Illumination Square Actuator	Spot Illumination Round Actuator	Spot Illumination Sculptured Actuator	Full Face Illumination Square Actuator
<b>1</b> Term. Nos. 3 & 1 Top				

**JF Series Legend Instructions**

The following tables display Helvetica font styles in graduated point sizes. These tables can give you an idea at a glance which size might be most compatible for your legend. For more detailed information on each font style and individual character widths, see pages JF6 - JF9.

## Helvetica Light

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.063	.075	.084"	.092"	.100"	.111"	.120"	.141"	.161"	.189"	.211"	.231"

See page JF6 for the Helvetica Light Font Style table.

## Helvetica Regular

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.064"	.077"	.086"	.096"	.107"	.118"	.129"	.149"	.171"	.189"	.214"	.250"

See page JF7 for the Helvetica Regular Font Style table.

## Helvetica Bold

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.086"	.096"	.107"	.117"	.128"	.149"	.170"	.191"	.203"	.234"

See page JF8 for the Helvetica Bold Font Style table.

## Helvetica Black

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.084"	.095"	.106"	.116"	.126"	.149"	.169"	.189"	.211"	.229"

See page JF9 for the Helvetica Black Font Style table.

**Note:** Minimum distance between characters on any font style is critical to legibility and cannot be less than .015". Remember to include this dimension *between each* character width when calculating overall legend length.

## JF Series Legend Instructions

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.063	.075	.084"	.092"	.100"	.111"	.120"	.141"	.161"	.189"	.211"	.231"

Character	Character Widths in Inches											
A	.054	.062	.071	.081	.089	.098	.107	.124	.142	.160	.178	.195
B	.044	.053	.053	.068	.075	.083	.089	.104	.117	.134	.148	.163
C	.051	.062	.070	.079	.088	.088	.104	.122	.139	.156	.174	.191
D	.050	.058	.069	.074	.083	.091	.098	.116	.131	.148	.163	.181
E	.042	.049	.055	.063	.069	.076	.076	.096	.109	.123	.137	.150
F	.038	.045	.053	.059	.064	.072	.072	.091	.102	.117	.130	.142
G	.055	.063	.072	.072	.092	.099	.109	.126	.143	.162	.180	.197
H	.048	.056	.063	.072	.079	.087	.095	.110	.125	.142	.158	.174
I	.006	.008	.009	.010	.010	.011	.012	.014	.015	.018	.020	.022
J	.033	.040	.044	.050	.056	.061	.061	.077	.088	.100	.110	.122
K	.048	.056	.063	.071	.079	.088	.088	.110	.127	.145	.159	.173
L	.037	.045	.050	.057	.064	.070	.076	.089	.102	.115	.127	.140
M	.058	.065	.077	.086	.096	.104	.114	.132	.151	.171	.189	.206
N	.049	.056	.063	.073	.079	.087	.095	.110	.126	.142	.158	.174
O	.057	.065	.076	.084	.095	.103	.113	.131	.149	.169	.188	.205
P	.043	.050	.056	.064	.070	.076	.084	.097	.112	.126	.139	.152
Q	.057	.066	.076	.085	.094	.105	.113	.131	.149	.168	.186	.206
R	.047	.052	.061	.069	.075	.083	.090	.104	.118	.134	.151	.163
S	.045	.052	.059	.069	.074	.083	.087	.102	.117	.134	.147	.161
T	.045	.051	.059	.069	.073	.082	.088	.102	.116	.133	.146	.161
U	.048	.056	.063	.069	.078	.086	.094	.109	.125	.142	.155	.170
V	.049	.055	.064	.073	.079	.089	.096	.113	.129	.146	.162	.177
W	.073	.084	.096	.109	.121	.133	.145	.168	.192	.216	.241	.264
X	.048	.056	.064	.073	.082	.089	.097	.113	.129	.147	.162	.177
Y	.050	.058	.066	.074	.083	.090	.097	.115	.131	.147	.163	.181
Z	.047	.053	.062	.070	.077	.077	.092	.108	.122	.138	.153	.168
1	.022	.023	.028	.031	.036	.038	.042	.049	.055	.062	.069	.078
2	.041	.047	.053	.059	.065	.072	.078	.093	.105	.117	.131	.145
3	.041	.048	.054	.060	.067	.067	.080	.094	.107	.120	.133	.147
4	.041	.048	.054	.060	.068	.068	.082	.095	.108	.122	.134	.149
5	.040	.046	.053	.059	.067	.073	.079	.092	.105	.118	.131	.145
6	.040	.046	.054	.060	.066	.073	.081	.093	.104	.119	.132	.146
7	.038	.044	.051	.057	.063	.069	.075	.089	.101	.113	.125	.138
8	.040	.046	.052	.060	.060	.072	.078	.092	.106	.117	.131	.144
9	.040	.047	.054	.060	.066	.073	.080	.093	.106	.119	.133	.146
0	.040	.048	.054	.060	.067	.074	.080	.093	.107	.120	.133	.147
.	.005	.007	.008	.010	.010	.013	.013	.014	.017	.019	.019	.023
,	.007	.008	.009	.010	.010	.012	.014	.016	.017	.019	.021	.023
+	.042	.050	.056	.064	.069	.077	.085	.097	.110	.125	.139	.153
-	.021	.025	.029	.032	.036	.039	.043	.051	.056	.064	.071	.078
/	.023	.029	.033	.037	.042	.046	.050	.057	.065	.074	.081	.089

Note: Minimum distance between characters is critical to legibility and cannot be less than .015".

## JF Series Legend Instructions

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.064"	.077"	.086"	.096"	.107"	.118"	.129"	.149"	.171"	.189"	.214"	.250"
Character	Character Widths in Inches											
A	.054	.063	.072	.081	.089	.097	.108	.126	.142	.159	.178	.196
B	.045	.054	.061	.069	.076	.084	.091	.105	.122	.139	.151	.167
C	.053	.062	.069	.079	.088	.096	.105	.122	.139	.159	.176	.194
D	.048	.056	.065	.073	.082	.090	.097	.112	.129	.145	.161	.178
E	.044	.052	.059	.066	.074	.081	.086	.103	.116	.132	.145	.160
F	.042	.056	.056	.063	.069	.076	.082	.095	.102	.123	.136	.149
G	.056	.064	.075	.085	.094	.103	.111	.130	.147	.167	.185	.204
H	.048	.056	.063	.071	.079	.087	.094	.109	.125	.140	.157	.173
I	.009	.010	.011	.010	.014	.013	.016	.019	.020	.024	.028	.029
J	.035	.041	.047	.051	.057	.064	.070	.081	.090	.102	.115	.127
K	.049	.057	.064	.073	.081	.088	.097	.111	.127	.144	.162	.178
L	.039	.043	.051	.057	.063	.069	.076	.088	.102	.113	.127	.139
M	.059	.067	.077	.086	.096	.107	.116	.134	.155	.173	.191	.211
N	.049	.058	.064	.072	.079	.087	.096	.111	.129	.141	.160	.175
O	.059	.069	.079	.089	.097	.109	.117	.138	.156	.177	.198	.215
P	.044	.052	.058	.066	.074	.082	.089	.103	.115	.133	.148	.161
Q	.058	.069	.079	.089	.099	.108	.117	.139	.157	.177	.198	.216
R	.050	.058	.067	.075	.082	.090	.098	.113	.130	.147	.164	.181
S	.048	.056	.064	.072	.080	.088	.096	.111	.126	.142	.161	.161
T	.049	.056	.063	.071	.080	.089	.097	.111	.127	.142	.161	.176
U	.048	.056	.063	.071	.078	.087	.094	.110	.126	.139	.158	.173
V	.052	.060	.071	.077	.086	.097	.103	.120	.138	.154	.173	.189
W	.076	.089	.101	.114	.128	.138	.153	.178	.204	.227	.251	.280
X	.053	.062	.071	.080	.088	.098	.106	.122	.140	.156	.174	.193
Y	.054	.064	.073	.083	.090	.100	.109	.126	.146	.162	.181	.200
Z	.047	.054	.063	.070	.078	.086	.094	.108	.124	.139	.155	.172
1	.021	.023	.029	.031	.035	.038	.041	.046	.056	.063	.068	.076
2	.041	.047	.055	.061	.066	.074	.078	.093	.107	.119	.134	.146
3	.041	.046	.054	.060	.067	.072	.080	.094	.107	.119	.133	.146
4	.042	.048	.056	.062	.069	.076	.082	.096	.111	.122	.138	.151
5	.041	.048	.054	.061	.067	.074	.080	.093	.107	.120	.134	.148
6	.040	.046	.054	.060	.066	.072	.080	.092	.107	.119	.131	.145
7	.041	.047	.053	.060	.069	.072	.080	.093	.105	.118	.133	.145
8	.040	.046	.053	.060	.066	.073	.079	.092	.107	.119	.133	.147
9	.040	.046	.053	.059	.065	.072	.080	.092	.105	.119	.132	.145
0	.040	.045	.052	.059	.065	.071	.077	.090	.102	.116	.129	.141
.	.009	.011	.012	.014	.015	.016	.017	.020	.023	.027	.029	.031
,	.008	.011	.012	.014	.017	.017	.018	.020	.024	.026	.030	.023
+	.041	.048	.054	.061	.068	.074	.081	.095	.110	.122	.134	.149
-	.020	.023	.026	.030	.034	.037	.041	.048	.054	.061	.066	.074
/	.025	.029	.033	.039	.041	.045	.050	.056	.065	.074	.081	.089

Note: Minimum distance between characters is critical to legibility and cannot be less than .015".

## JF Series Legend Instructions

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.086"	.096"	.107"	.117"	.128"	.149"	.170"	.191"	.203"	.234"
Character	Character Widths in Inches											
A	n/a	n/a	.076	.085	.095	.105	.113	.132	.150	.170	.189	.208
B			.065	.073	.082	.089	.097	.114	.129	.146	.163	.179
C			.073	.081	.089	.098	.107	.125	.144	.162	.179	.196
D			.068	.076	.085	.093	.102	.119	.135	.151	.168	.186
E			.062	.069	.076	.084	.092	.107	.122	.137	.152	.168
F			.057	.065	.072	.079	.086	.101	.115	.129	.143	.157
G			.075	.084	.094	.103	.112	.130	.149	.168	.186	.205
H			.065	.075	.083	.090	.099	.116	.131	.148	.164	.181
I			.017	.019	.022	.023	.026	.030	.034	.038	.043	.047
J	n/a	n/a	.052	.059	.065	.071	.077	.091	.103	.116	.129	.142
K			.073	.082	.090	.099	.109	.126	.143	.162	.180	.198
L			.056	.063	.070	.076	.084	.098	.111	.126	.140	.154
M			.080	.089	.100	.109	.120	.140	.159	.179	.199	.219
N			.067	.075	.083	.091	.100	.116	.132	.148	.166	.182
O			.079	.088	.097	.107	.118	.137	.156	.176	.195	.215
P			.063	.070	.078	.086	.095	.109	.124	.140	.155	.171
Q			.077	.088	.098	.108	.118	.137	.157	.175	.195	.216
R			.067	.076	.083	.092	.100	.116	.133	.149	.167	.184
S	n/a	n/a	.068	.076	.084	.092	.102	.118	.135	.151	.168	.185
T			.065	.074	.082	.089	.098	.115	.131	.147	.163	.180
U			.065	.073	.082	.089	.098	.114	.129	.145	.162	.177
V			.069	.078	.087	.096	.104	.122	.140	.157	.175	.191
W			.102	.116	.129	.142	.155	.180	.206	.230	.256	.281
X			.070	.081	.089	.098	.106	.122	.140	.159	.176	.193
Y			.069	.078	.087	.096	.105	.122	.139	.156	.175	.191
Z			.062	.069	.077	.084	.092	.108	.122	.138	.153	.168
1			.035	.039	.043	.049	.053	.060	.069	.078	.086	.096
2			.054	.061	.067	.074	.082	.094	.107	.122	.135	.148
3			.055	.062	.069	.076	.082	.095	.109	.122	.136	.149
4			.056	.063	.069	.077	.083	.098	.112	.125	.140	.153
5	n/a	n/a	.056	.062	.069	.076	.083	.096	.109	.122	.136	.151
6			.055	.063	.069	.076	.082	.096	.109	.122	.138	.149
7			.056	.063	.070	.077	.084	.098	.112	.119	.140	.154
8			.056	.063	.069	.078	.085	.099	.112	.127	.140	.154
9			.055	.061	.069	.076	.083	.096	.109	.122	.135	.149
0			.055	.062	.069	.076	.081	.096	.109	.122	.137	.150
.			.017	.019	.021	.023	.026	.030	.033	.038	.043	.047
,			.017	.020	.022	.023	.026	.030	.034	.038	.043	.047
+			.054	.061	.068	.075	.081	.096	.108	.122	.135	.148
-			.031	.034	.038	.042	.046	.054	.061	.069	.078	.084
/	n/a	n/a	.030	.035	.038	.043	.046	.054	.062	.069	.076	.084

Note: Minimum distance between characters is critical to legibility and cannot be less than .015".

## JF Series Legend Instructions

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.084"	.095"	.106"	.116"	.126"	.149"	.169"	.189"	.211"	.229"
Character	Character Widths in Inches											
A	n/a	n/a	.085	.096	.106	.116	.127	.148	.170	.186	.211	.233
B			.075	.084	.093	.102	.111	.129	.147	.167	.184	.203
C			.082	.091	.102	.112	.122	.142	.162	.182	.203	.222
D			.078	.088	.097	.107	.115	.136	.155	.174	.193	.214
E			.068	.076	.084	.093	.101	.117	.134	.151	.168	.184
F			.063	.071	.079	.087	.094	.110	.125	.141	.157	.173
G			.082	.092	.102	.112	.122	.141	.162	.183	.203	.223
H			.078	.088	.097	.108	.117	.136	.155	.175	.194	.212
I			.027	.030	.034	.037	.040	.047	.053	.060	.067	.072
J	n/a	n/a	.065	.072	.081	.088	.096	.112	.127	.142	.159	.175
K			.084	.095	.104	.116	.125	.147	.167	.188	.210	.230
L			.063	.071	.079	.087	.094	.110	.125	.141	.157	.171
M			.092	.103	.115	.126	.139	.161	.184	.208	.230	.251
N			.078	.087	.097	.108	.116	.136	.155	.175	.194	.214
O			.085	.095	.106	.116	.126	.148	.168	.190	.211	.231
P			.074	.083	.092	.101	.109	.128	.146	.165	.183	.200
Q			.085	.095	.106	.116	.126	.147	.168	.189	.211	.230
R			.076	.087	.096	.105	.115	.135	.153	.172	.192	.212
S	n/a	n/a	.074	.083	.092	.101	.109	.129	.147	.165	.182	.201
T			.074	.084	.093	.102	.110	.129	.147	.166	.185	.203
U			.078	.088	.097	.108	.116	.135	.155	.175	.194	.211
V			.083	.093	.102	.112	.123	.142	.164	.184	.205	.226
W			.111	.124	.138	.152	.167	.194	.221	.250	.275	.303
X			.086	.097	.106	.117	.128	.149	.171	.190	.213	.234
Y			.086	.098	.109	.119	.129	.150	.172	.194	.215	.237
Z			.073	.082	.090	.100	.109	.127	.145	.163	.181	.199
1			.042	.047	.052	.058	.063	.073	.083	.094	.104	.113
2			.068	.076	.083	.091	.100	.117	.132	.149	.167	.183
3			.069	.076	.083	.092	.101	.117	.133	.150	.167	.184
4			.069	.076	.086	.094	.102	.120	.136	.154	.170	.188
5	n/a	n/a	.069	.076	.085	.094	.102	.120	.136	.153	.170	.186
6			.069	.077	.086	.095	.103	.121	.137	.154	.171	.189
7			.064	.072	.080	.088	.096	.111	.127	.142	.158	.175
8			.069	.077	.085	.094	.102	.120	.135	.154	.170	.186
9			.069	.077	.085	.096	.102	.121	.136	.155	.170	.189
0			.069	.076	.085	.095	.103	.119	.136	.154	.171	.189
.			.023	.027	.030	.033	.036	.042	.048	.053	.060	.066
,			.023	.027	.030	.033	.037	.042	.048	.054	.060	.066
+			.056	.063	.071	.077	.084	.098	.114	.127	.141	.155
-			.030	.034	.037	.042	.045	.053	.061	.068	.076	.083
/	n/a	n/a	.039	.043	.049	.052	.058	.068	.077	.086	.096	.104

Note: Minimum distance between characters is critical to legibility and cannot be less than .015".

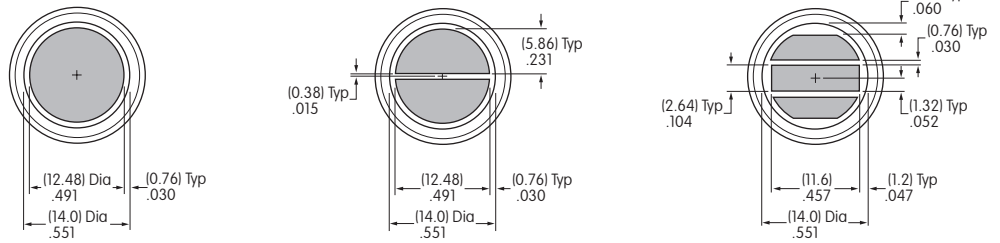
## JF Series Legend Instructions

Note: All gray areas represent printable surfaces.

### Round Housing

#### Round Actuator

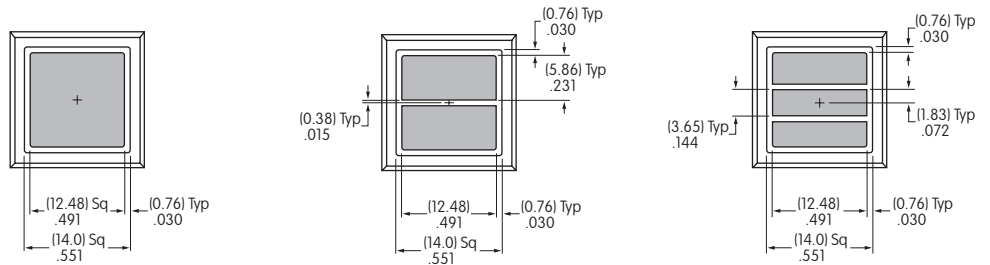
Note max. space available for 1, 2 or 3 line legends. These dimensions must be considered when choosing font style and size for round actuator.\*



### Square Housing

#### Square Actuator

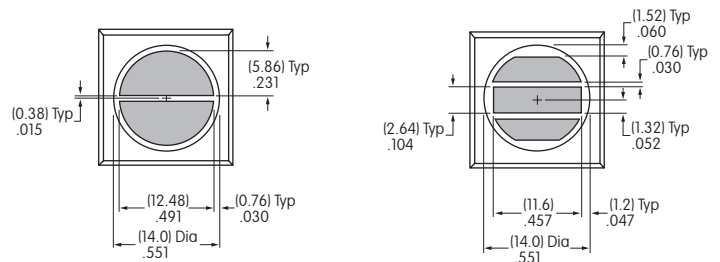
1 line max. height .491"  
 2 lines max. height .231"  
 3 lines max. height .144"  
 Max. width .491"



### Square Housing

#### Round Actuator

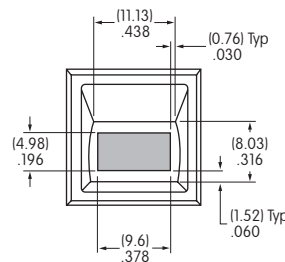
Note max. space available for 1, 2 or 3 line legends. These dimensions must be considered when choosing font style and size for round actuator.\*



### Square Housing

#### Sculptured Actuator

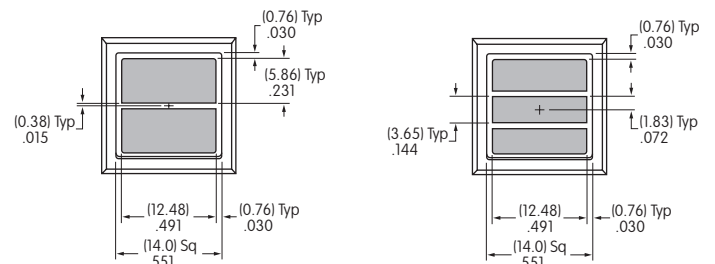
1 line max. height .196"  
 Max. width .378"



### Square Housing

#### Piano Actuator

1 line max. height .491"  
 2 lines max. height .231"  
 3 lines max. height .144"  
 Max. width .491"



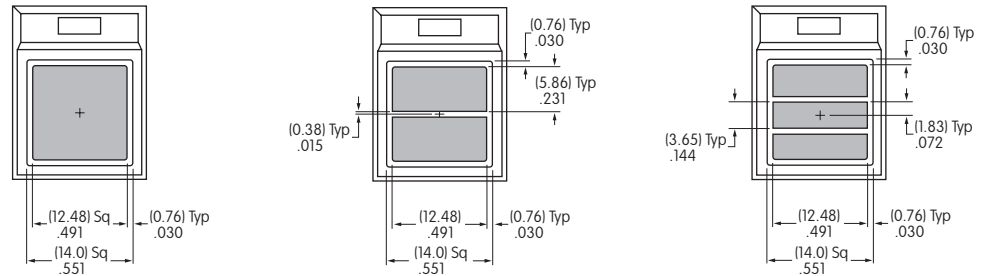
\*Factory assistance available.

Note: All gray areas represent printable surfaces.

### Spot Illumination

#### Square Actuator

1 line max. height .491"  
 2 lines max. height .231"  
 3 lines max. height .144"  
 Max. width .491"

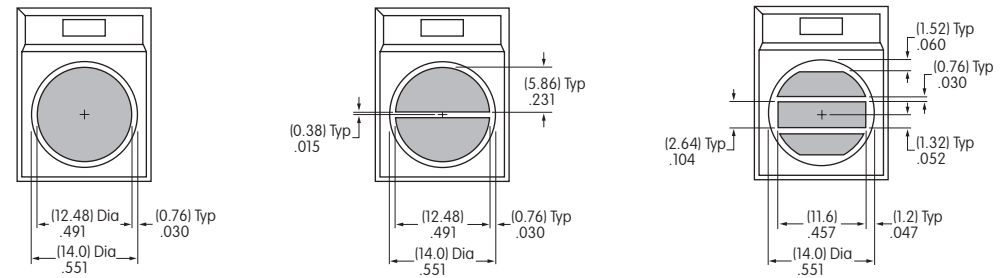


### Spot Illumination

#### Round Actuator

Note max. space available for 1, 2 or 3 line legends. These dimensions must be considered when choosing font style and size for round actuator.\*

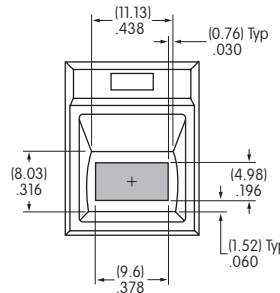
\*Factory assistance available.



### Spot Illumination

#### Sculptured Actuator

1 line max. height .196"  
 Max. width .378"



### Full Face Illumination

#### Legend Block

1 line max. height .176"  
 Max. width .472"

#### Square Actuator

1 line max. height .452"  
 2 lines max. height .211"  
 3 lines max. height .131"  
 Max. width .452"

