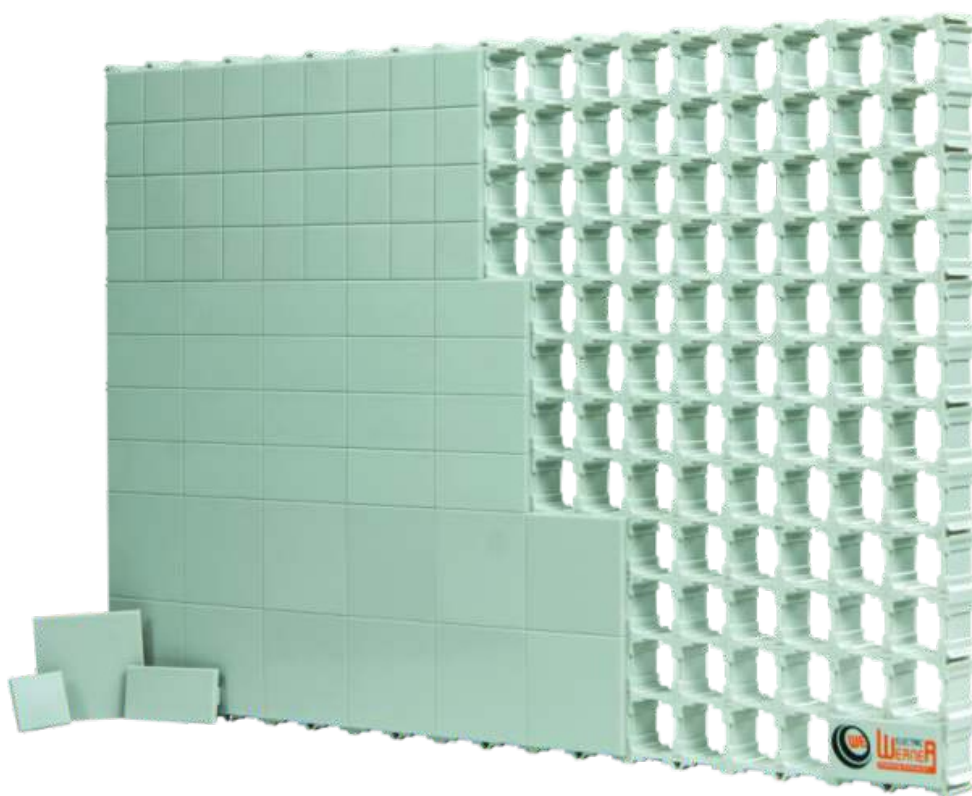


PRODUCT SPECIFICATION

90 Series Mosaic



Introduction

Mosaic systems is widely used in almost all parts of industrial applications like Power Generating Plants, Water Treatment Plants, water pipeline systems, control cabinets , control rooms and Monitoring Arena within huge Industrial Plants.

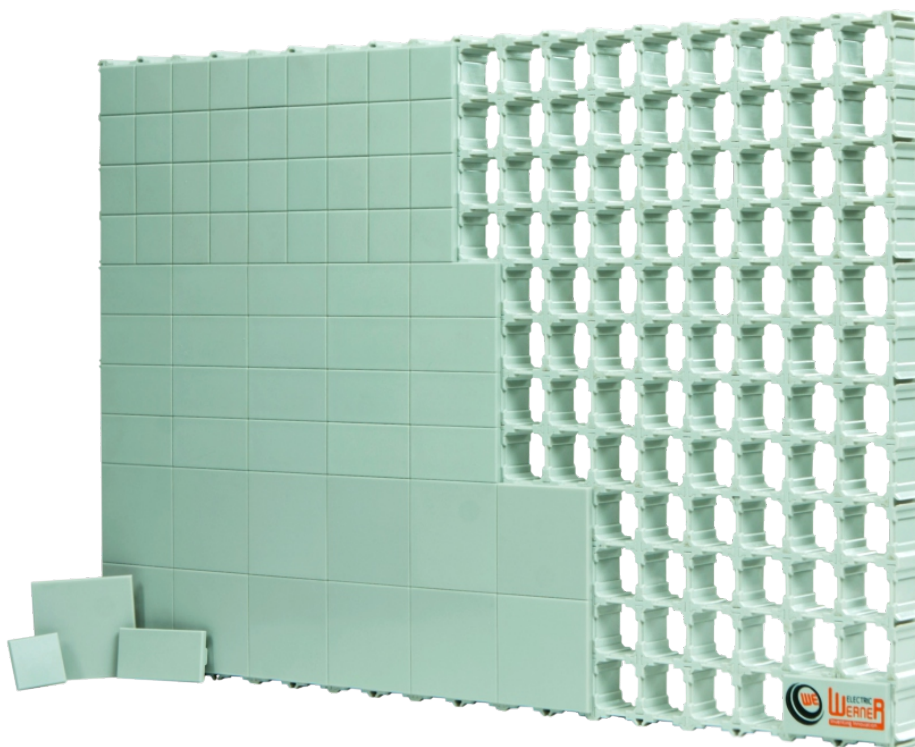
The uniqueness of this application or system is to combine the two different honey comb grids that is 23 W & 48 W with any desk plate, control panel, indicator panel & imbibe easily in a desk top by a seamless method. This incorporates with a host of measuring instruments, knobs, signal & control circuits present in the desk plate, wall panel or cabinet. In short we can say that it is one application which can hoist loads of other useful components with ease.

Werner Electric is proud to state that all control & indicating instruments have been time tested for 20 years and can be used in our Werner grid with tranquil methods of fixing. We integrate LED's instead of incandescent bulbs for Indicating Alarms and Status Signals. This also gives an edge in eliminating the usual incurred expenses & also the downtime incurred to replace the incandescent lamps which have a limited durability. Adding to this, the danger of short circuits which exists when lamps are replaced is nullified.

The Wiring is standardized to suit all active components within the array of Mosaic technology, using multi core plastic cables which in turn are equipped with multi polar plugs. These plugs are installed or fitted on terminal boards with 25 pins per row; also the standard cable length is 2.20m.

We also add on our non reflecting plastic tiles to cover the front of our models. Going ahead our technological process flow diagram images are imprinted on the tiles producing an abrasion, scratch and graze proof mimic.

Our Mosaics are equipped with special border of Aluminum Grid which in turn customizes to incorporate with ease into desk panels, cabinets & Wall Panels without the use of additional bezels.



Description of the Mosaic Grid

State of the Art Quality of Display Surface:

Our Werner Honey Comb mosaic tiles of 24 W are held diagonally by Hair Pin springs at the two corners and the other two corners are centered by Cylindrical Protrusions. Adding to this in our 48 W model, the tiles are aligned by Cylindrical Protrusions on all four opposite sides & equipped with Hair Pin springs at each individual corner. This alignment prevents tolerances of tiles from building up, which in turn helps to achieve a splendid quality of the displayed surface. The tile edges are beveled in order to cover up any spots where the fitting is not accurate, thus leaving no room for error. Adding to the icing our tiles can be rotated at 90 degrees to create an enhanced graphic display using symbol tiles.



Tiles

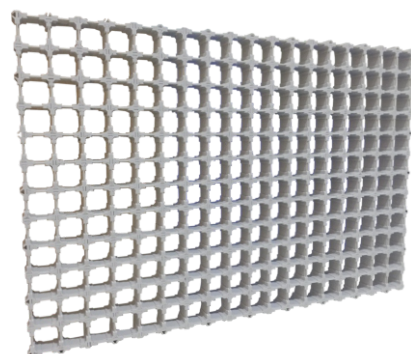
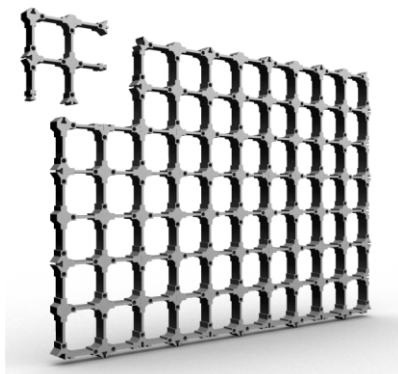
Our Tiles are made of Plastic & consists of a high quality Poly Carbonate which makes them antistatic & illuminate fast. Normally our tiles are grey in color resembling RAL 7032. However we host a range of colors for our base like Beige, Charcoal, Eau-de-Nil, Cocoa Brown etc.

Our Imprinted Symbol Color diffuses or integrates with ease into the tile surface which enhances the durability factor & resists Mechanical Abrasion in the Mimic diagram.

Our Innovative High quality of display surface & unique process of imprinting the tiles bring in the state of art in a mimic diagram with respect to the adorable Plastic effect & adulating sharpness of the outlines.

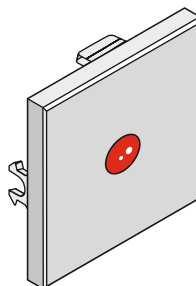
Hassle Free Mounting Techniques:

Our design of construction of the Honey Comb Grid & the use of Special border tiles helps in hassle free quick assembly of desk panels, cabinets & structural frameworks. In addition to this our border tiles obscure the structural support & fastens in such a way that they make it unnecessary to resort to a separate bezel, which in turn gives a face lift to the overall appearance of the display Panel.



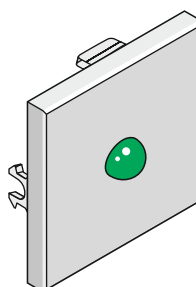
Tiles - LED & SEMAPHORE Model Selection

Direct Fit Flush LED
3mm, 5mm, 13mm, 19mm



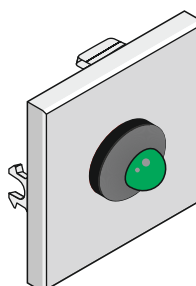
90.DF.01.#.*

Direct Fit Dome Led
3mm, 5mm, 8mm, 10mm



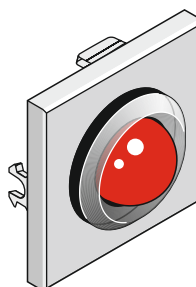
90.DD.01.#.*

Bezel, Plastic 15mm LED
10mm Bezel



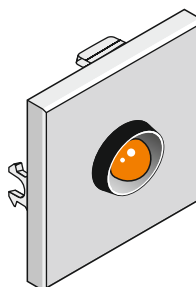
90.BP.01.#.*

Bezel, Plastic 10mm LED
16mm Bezel



90.BP.02.#.*

Bezel, Steel 15mm LED
10mm Bezel

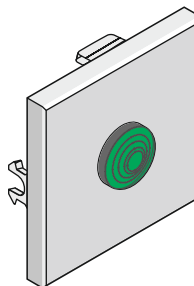


90.BS.01.#.*

Note : Tiles color refer page no.15 for RAL No. (*)

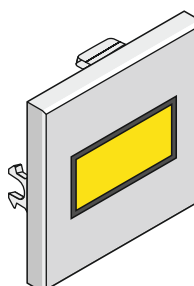
Tiles - LED & SEMAPHORE Model Selection

Bezel, Plastic Flush Fit 5mm LED
16.4mm Cut-Out



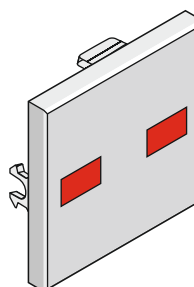
90.BPF.01.#.*

7 X 15 LED Bar with Bezel



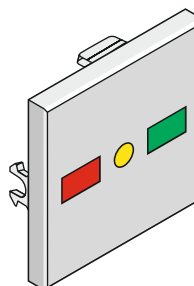
90.LBB.01.#.*

2 LED Semaphore 1 Or 2 Color



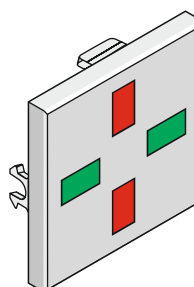
90.LS.02.#.*

3 LED Semaphore Red, Green Or
Yellow in any combination



90.LS.03.#.*

4 LED Semaphore 2 Color Red &
Green

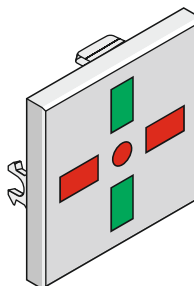


90.LS.04.#.*

Note : Tiles color refer page no.15 for RAL No. (*)

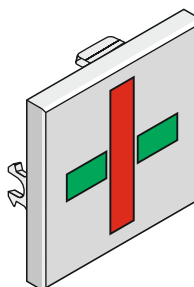
Tiles - LED & SEMAPHORE Model Selection

5 LED Semaphore 3 Color Red & Green Bars 3mm Yellow LED



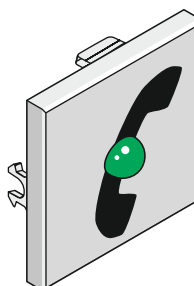
90.LS.05.01.#.*

3 LED Semaphore Large Bar Red Color & Green Side Bars



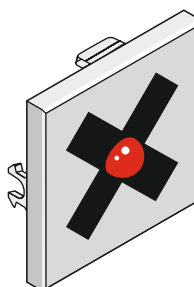
90.3LS.03.01.#.*

Direct Fit Dom LED Symbol Type



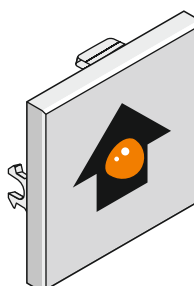
90.DFDL.02.01.#.*

Direct Fit Dom LED Symbol Type



90.DFDL.03.01.#.*

Direct Fit Dom LED Symbol Type

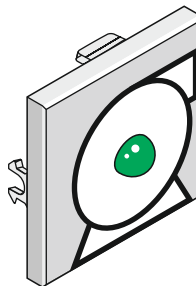


90.DFDL.04.01.#.*

Note : Tiles color refer page no.15 for RAL No. (*)

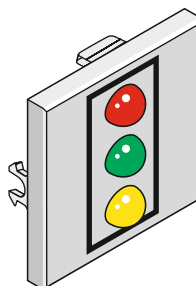
Tiles - LED & SEMAPHORE Model Selection

Direct Fit Dom LED Symbol Type



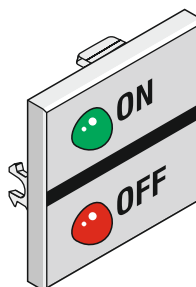
90.DFDL.01.#.*

Direct Fit 3 Dom LED Symbol Type
3 Color



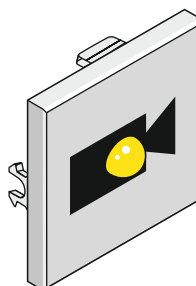
90.DF3DL.01.#.*

Direct Fit 2 Dom LED Legend Type
2 Color



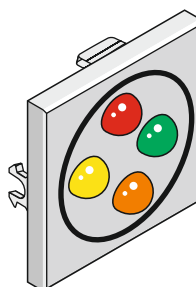
90.DF2DL.01.#.*

Direct Fit Dom LED Symbol Type



90.DFDL.05.#.*

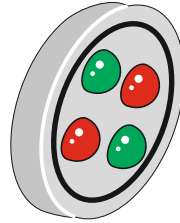
Direct Fit 4 Dom LED Symbol Type
2 Color



90.DF4DL.01.00.#.*

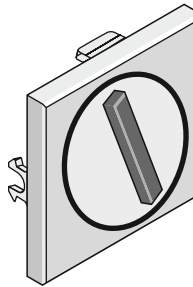
Tiles - LED & SEMAPHORE Model Selection

Direct Fit 4 Dom LED Symbol Type
2 Color



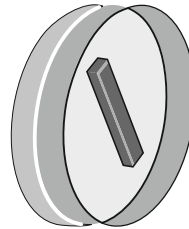
90.DF4DL.01.#.*

Parallel Bar Semaphore



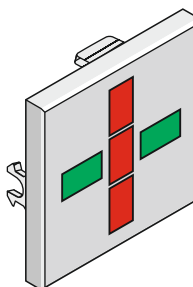
90.PBS.01.#.*

Parallel Bar Semaphore available in
two diameters 63mm & 48mm



90.PBS.63.#.*

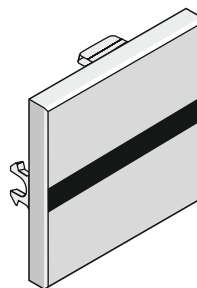
5 LED Semaphore 3 Color Red &
2 Color Green



90.LS.3R2G.01.#.*

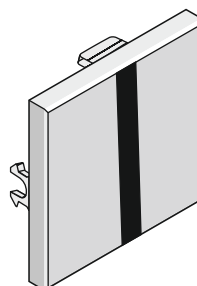
Tiles - MIMIC Model Selection

Straight line horizontal, thickness
3mm - 10mm color RAL



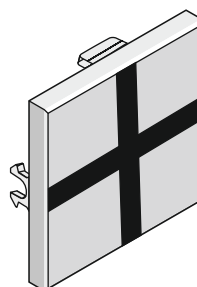
90.SLH.3.#.*

Straight line vertical, thickness
3mm - 10mm color RAL



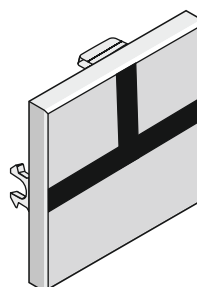
90.SLV.3.#.*

Cross line , thickness 3mm - 10mm
color RAL



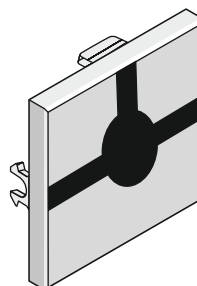
90.CL.3.#.*

Perpendicular line, thickness
3mm - 10mm color RAL



90.PL.3.#.*

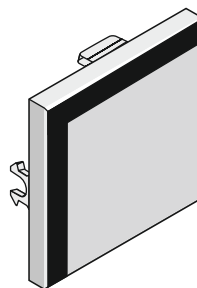
Perpendicular line with circle,
thickness 3mm - 10mm color RAL



90.PLC.3.#.*

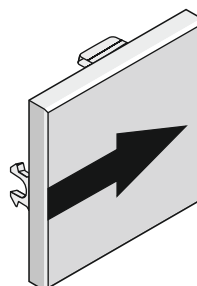
Tiles - MIMIC Model Selection

'L' line, thickness
3mm - 10mm color RAL



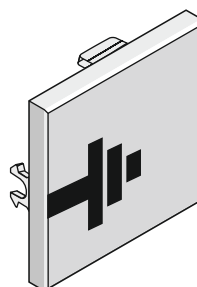
90.LL.3.#.*

Arrow line , thickness
3mm - 10mm color RAL



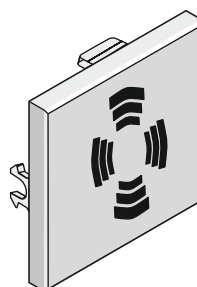
90.AL.3.#.*

Grounding, thickness 3mm - 10mm
color RAL



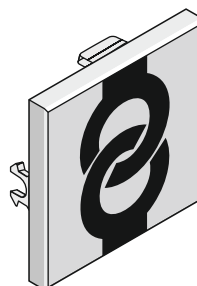
90.G.3.#.*

Buzzer, thickness
3mm color RAL



90.B.3.#.*

Transformer symbol ,
thickness 3mm - 10mm color RAL



90.PLC.3.#.*

Tiles - MIMIC Legends Arrangement

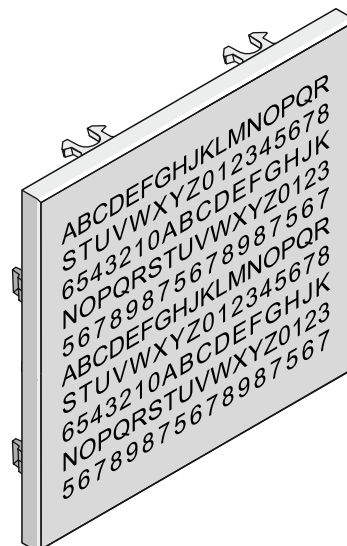
Tiles 24 X 24



Tiles 24 X 48



Tiles 48 X 48



Font

Arial 10pt, 12pt, 18pt

1 2 3 4 5 6 7 8 9

1 ABCDEFGHI
2 JKLMNOPQ
3 RSTUVWXY
4 Z01234567
5 987654321

1 2 3 4 5

1 ABCDE
2 HFGHI
3 KLMNH

1 2 3 4 5 6 7

1 ABCDEFG
2 HIJKLMN
3 PQRSTUV
4 WXYZ012

1234567891011121314151617

1 ABCDEFGHJKLMNOPQR
2 STUVWXYZ012345678
3 6543210ABCDEFGHIJK
4 NOPQRSTUVWXYZ0123
5 56789875678987567

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 ABCDEFGHJKLMNO
2 PQRSTUVWXYZ012
3 45678987654321
4 DEFGHJKLMNOPQR

1 2 3 4 5 6 7 8 9 10

1 ABCDEFGHJK
2 LMNOPQRSTF
3 UVWXYZ0123

1234567891011121314151617

1 ABCDEFGHJKLMNOPQR
2 STUVWXYZ012345678
3 6543210ABCDEFGHIJK
4 NOPQRSTUVWXYZ0123
5 56789875678987567
6 ABCDEFGHJKLMNOPQR
7 STUVWXYZ012345678
8 6543210ABCDEFGHIJK
9 NOPQRSTUVWXYZ0123
10 56789875678987567

Control Switches

Model Number Structure - Indicator



40.14.02.11.06

Series	
40	Series Switches and Indicators

Operation Type	
1	Indicators

Shape	
4	Round Illuminated
5	Square Illuminated
6	Rectangular Illuminated

Contact	
0	No Contacts

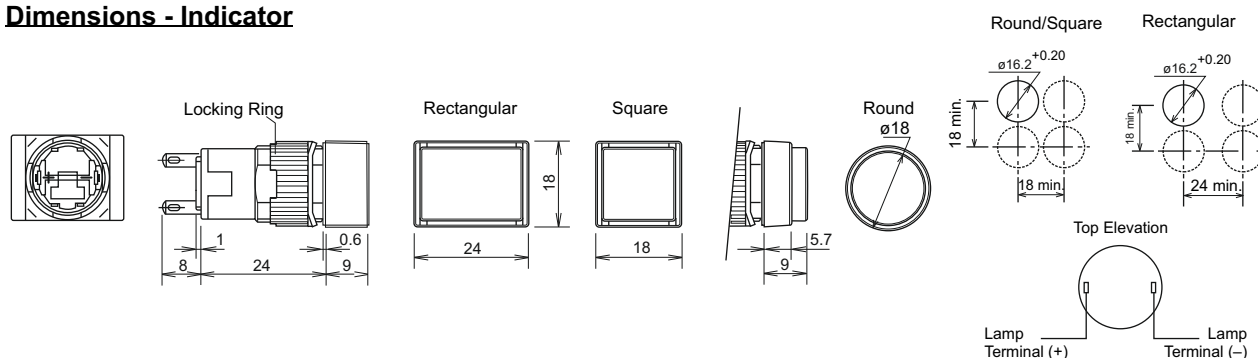
Voltage	
06	6V AC/DC
12	12V AC/DC
24	24V AC/DC

Lamp Type	
1	LED
2	Filament

Protection	
1	P40
2	IP65

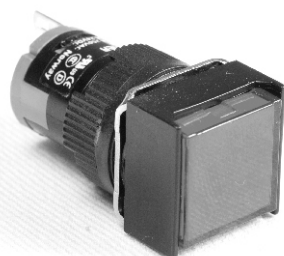
Color	
2	Red
3	Amber
4	Yellow
5	Green
6	Blue
9	White

Dimensions - Indicator



Control Switches

Model Number Structure - Pushbutton



40.24.12.21.06

Series	
40 Series Switches and Indicators	

Operation Type	
2	Push Button (Momentary)
3	Push Button (Maintained)
8	Mushroom Head (Momentary)
9	Mushroom Head (Maintained)
0	Accessories

Shape	
1	Round Non-Illuminated
2	Square Non-Illuminated
3	Rectangular Non-Illuminated
4	Round Illuminated
5	Square Illuminated
6	Rectangular Illuminated

Contact	
1	SPDT
2	DPDT

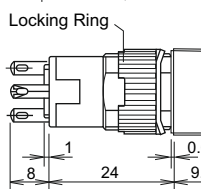
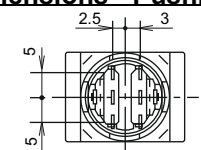
Voltage	
00	No Voltage
06	6V AC/DC
12	12V AC/DC
24	24V AC/DC

Lamp Type	
0	No Lamp
1	LED
2	Filament

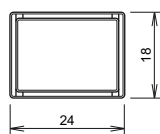
Protection	
1	IP40
2	IP65

Color	
2	Red
3	Amber
4	Yellow
5	Green
6	Blue
9	White
0	Black

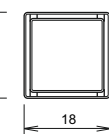
Dimensions - Pushbutton



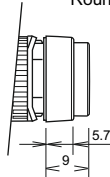
Rectangular



Square

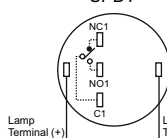


Round

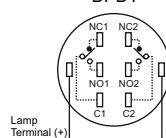


ø18

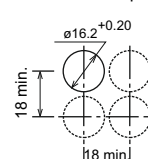
SPDT



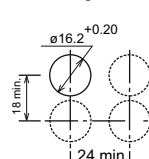
DPDT



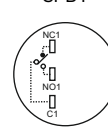
Round/Square



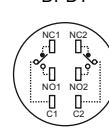
Rectangular



SPDT



DPDT



Control Switches

Model Number Structure - Selector Switch



40.52.10.11

Series	
40 Series Switches and Indicators	

Operation Type	
4	Selector Switch 90° - 2 Positions
5	Selector Switch 45° - 3 Positions

Shape	
1	Round Non-Illuminated
2	Square Non-Illuminated
3	Rectangular Non-Illuminated

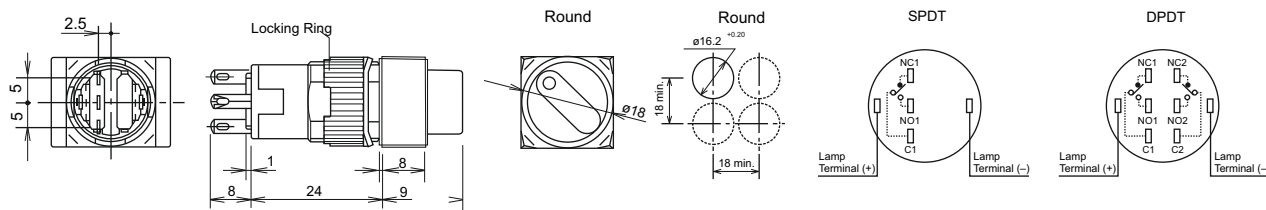
Position	
1	Maintained
2	Spring Return From Right
3	Spring Return From Left
4	Spring Return Two Ways

Protection	
1	IP40
2	IP65

Color	
0	Black

Contact	
1	SPDT
2	DPDT

Dimensions - Selector Switch



Control Switches

Model Number Structure - Illuminated Selector Switch



40.45.12.112.12

Series	
40 Series Switches and Indicators	

Operation Type	
4	Selector Switch 90° - 2 Positions
5	Selector Switch 45° - 3 Positions

Shape	
4	Round Illuminated
5	Square Illuminated
6	Rectangular Illuminated

Contact	
1	SPDT
2	DPDT

Color	
2	Red
3	Amber
4	Yellow
5	Green
6	Blue
9	White

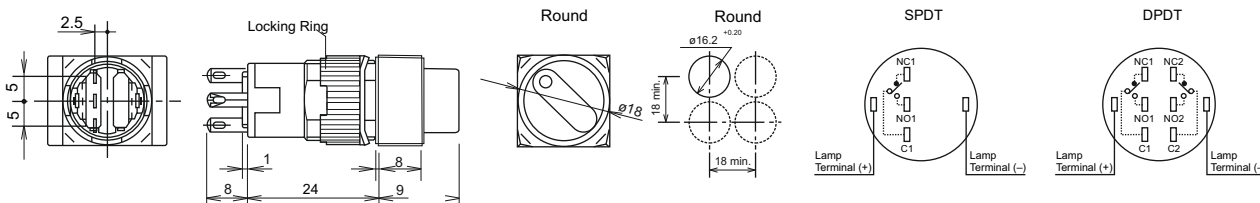
Voltage	
06	6V AC/DC
12	12V AC/DC
24	24V AC/DC

Lamp Type	
1	LED
2	Filament

Position	
1	Maintained
2	Spring Return From Right
3	Spring Return From Left
4	Spring Return Two Ways

Protection	
1	IP40
2	IP65

Dimensions - Selector Switch



Control Switches

Model Number Structure - Key Selector Switch



40.62.10.111

Series	
40 Series Switches and Indicators	

Operation Type	
6	Key Selector Switch 90° - 2 Positions
7	Key Selector Switch 45° - 3 Positions

Shape	
1	Round Non-Illuminated
2	Square Non-Illuminated
3	Rectangular Non-Illuminated

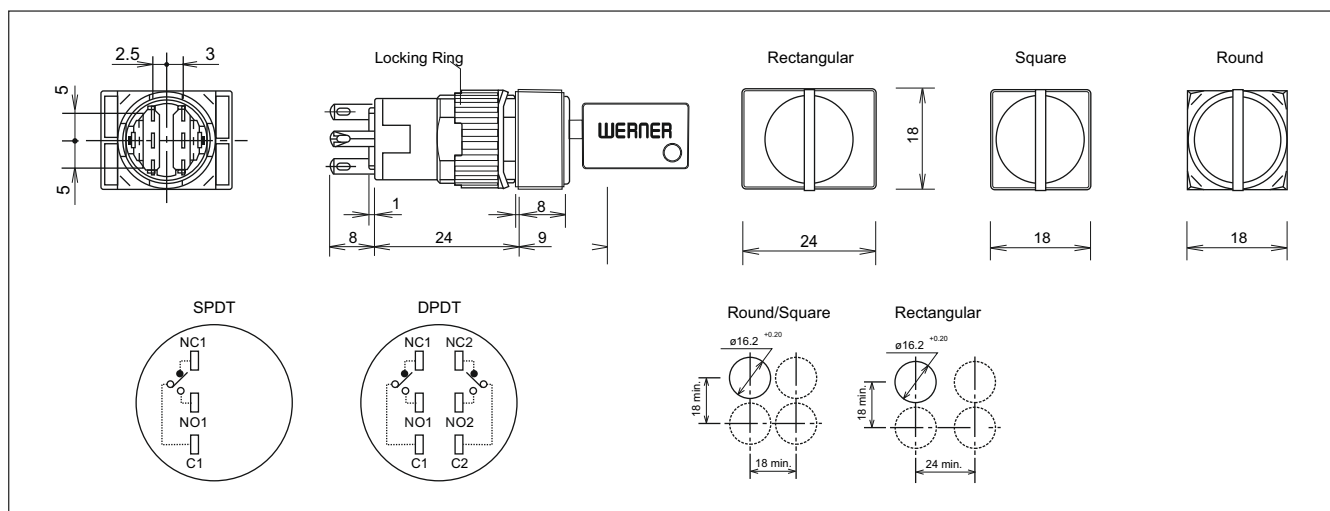
Contact	
1	SPDT
2	DPDT

Color	
0	Black

Key Retained / Removable	
1	Key Removable at all sides
2	Key Retained at Right
3	Key Retained at Left
4	Key Retained at Right & Left
5	Key Retained at Center
6	Key Retained at Center & Right
7	Key Retained at Center & Left

Position	
1	Maintained
2	Spring Return From Right
3	Spring Return From Left
4	Spring Return Two Ways

Protection	
1	IP40
2	IP65

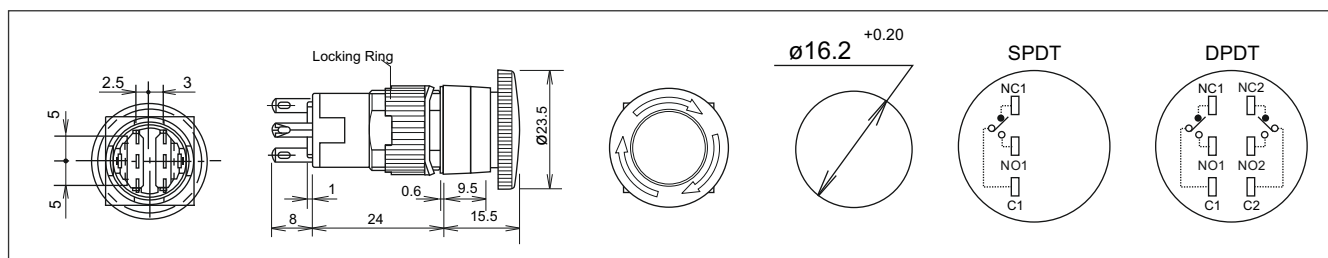


Control Switches

Model Number Structure - E-Stop



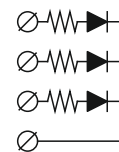
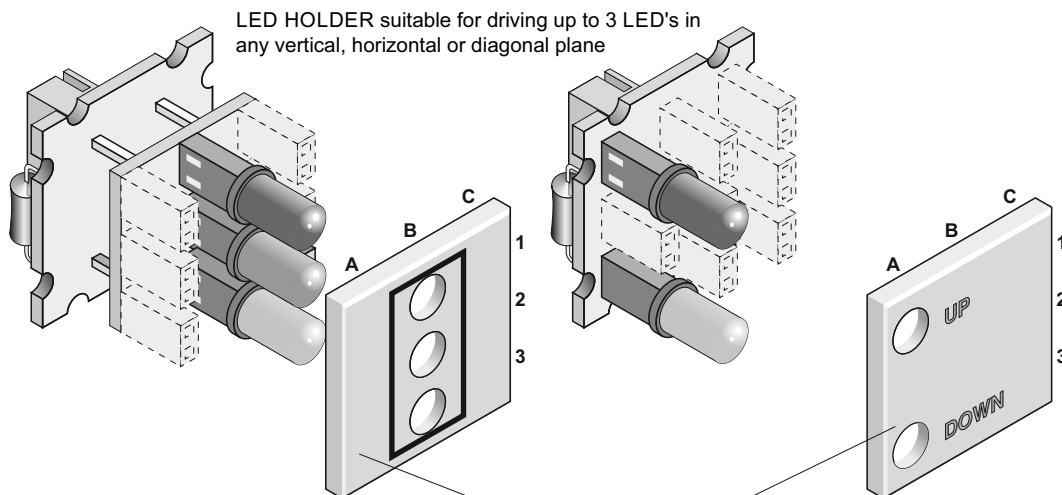
Operation Type	Contact	Color	Model No. IP40	Model No. IP65
Pushlock Turn Reset	SPDT	Red	40.08.12.10	40.08.12.20
Pushlock Turn Reset	DPDT	Red	40.08.22.10	40.08.22.20



Selector Switch Contact Arrangement

Position	Operation Type	Contact	Left ↙	Center ↑	Right ↗
90° 2 Positions	Maintained 	SPDT 	NO NC 	—	NO NC
	Spring return from right 	DPDT 	Left Contact NO NC Right Contact NO NC 	—	Left Contact NO NC Right Contact NO NC
45° 3 Positions	Maintained 	DPDT 	Left Contact NO NC Right Contact NO NC 	Left Contact NO NC Right Contact NO NC 	Left Contact NO NC Right Contact NO NC
	Spring return from right 				
	Spring return from left 				
	Spring return two-way 				

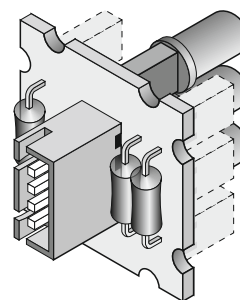
LED Holder For Spot LEDs



ORDER No.DT3					
Vertical Position:	Horizontal Position:	Vertical Position:	Horizontal Position:	Vertical Position:	Horizontal Position:
First LED	First LED	Second LED	Second LED	Third LED	Third LED
A B C	1 2 3	A B C	1 2 3	A B C	1 2 3

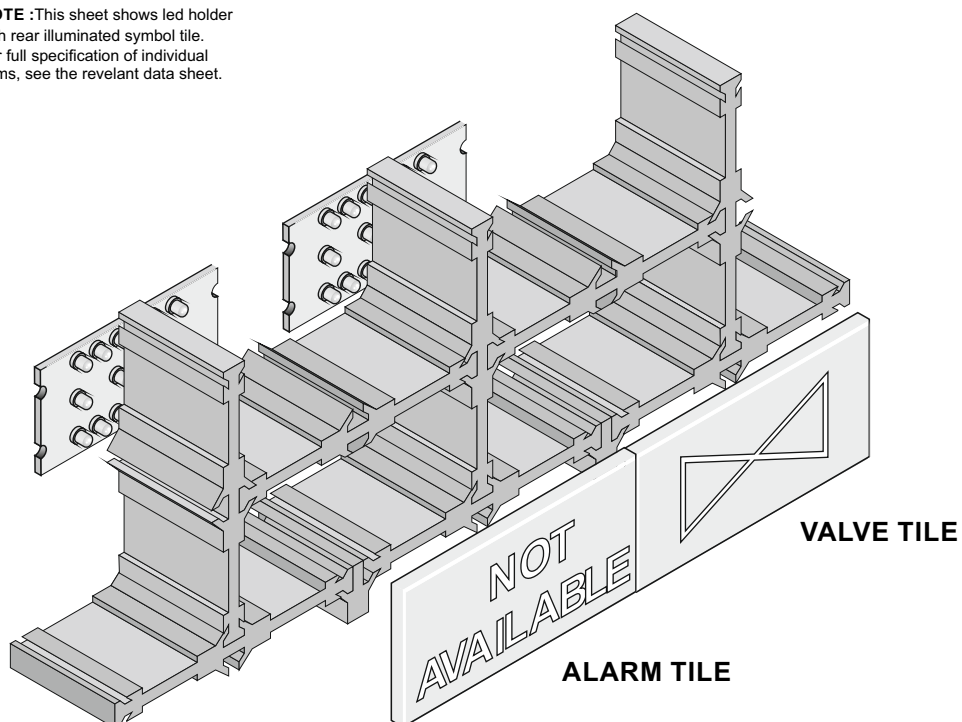
NOTE:

- Plug on led lead for up to 3 leds (same wiring)
- Resistors fix up to 48V DC can be incorporated
- Simple operation to replace led module from rear of panel
- Secure screw fixing onto grid, so LEDs cannot be pressed back
- Can be used for with protruding leds or flush fit lenses



REAR ILLUMINATED SYMBOL TILES 24x48

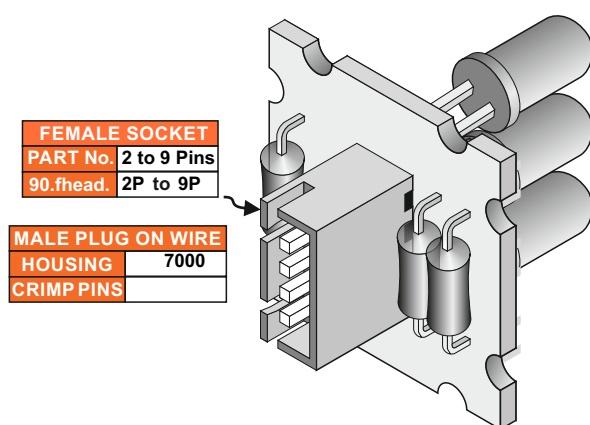
NOTE : This sheet shows led holder with rear illuminated symbol tile. For full specification of individual items, see the relevant data sheet.



STANDARD LEDs AVAILABLE
4 COLOUR SYTEMS
DEEP RED
ORANGE
YELLOW
GREEN
3 COLOUR SYTEMS
LIGHT RED
YELLOW
GREEN

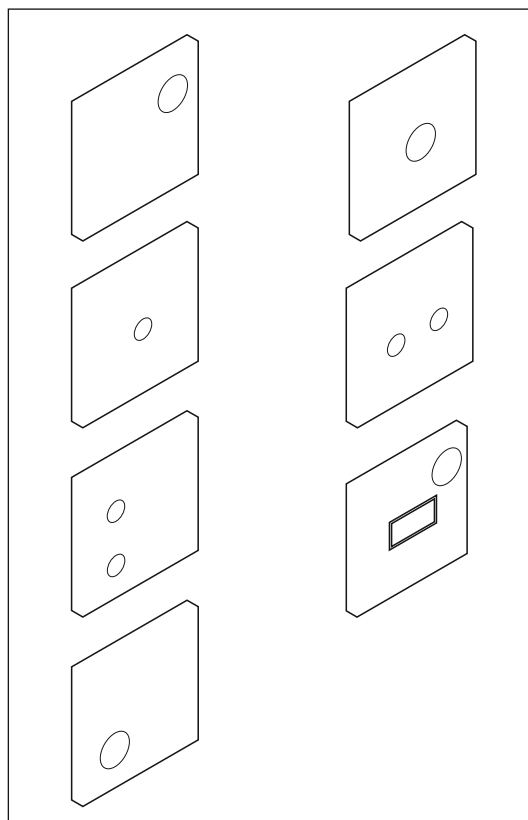
LED Holder For Spot LEDs FEATURES:

SECURE SCREW FIXING ONTO GRID, SO LEDs CANNOT BE PRESSED BACK
RESISTORS FOR UP TO 48V DC CAN BE INCORPORATED
PLUG ON LED LEAD FOR UP TO 3 LEDs (SAME WIRING)
SIMPLE OPERATION TO REPLACE LED MODULE FROM REAR OF PANEL
CAN BE USED FOR WITH PROTRUDING DOME OR FLUSH FLATTOP LED'S
AVAILABLE WITH 5mm OR 3mm LED'S AND BI-COLOUR IN MOST CASES.

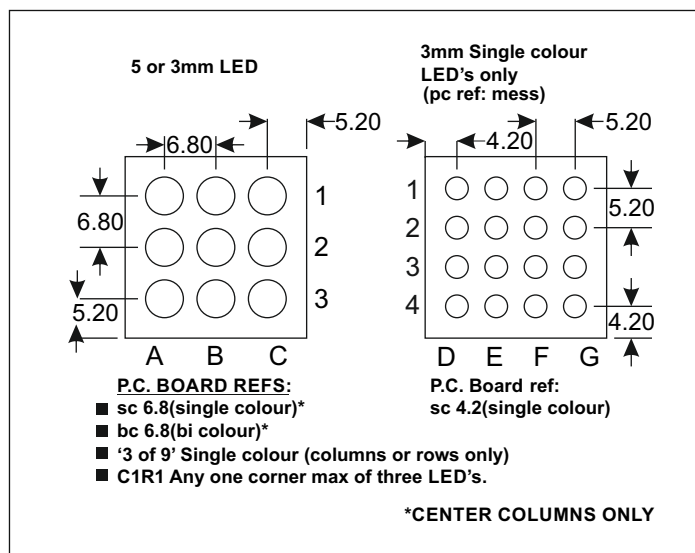


WERNER CAN SUPPLY WIRE LEADS WITH PLUGS,
OR THE LOCAL STOCKIST OF PLUG PART IN MOST
COUNTRIES IF REQUESTED

SOME VARIATIONS AVAILABLE
WITH STANDARD SPOT LED HOLDERS

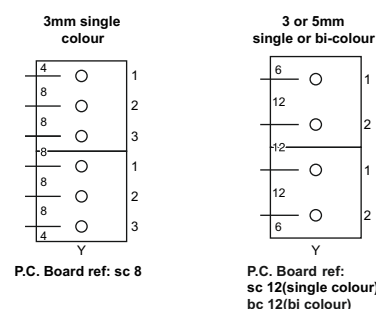


STANDARD LED POSITIONS



Special Alarm LED's

LED holder where space between LED's
(8mm or 12mm) needs to be equal on adjacent tiles.

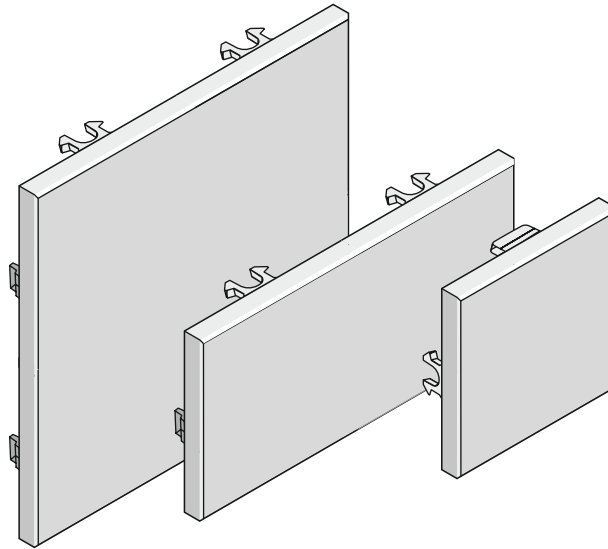


24 x 24 Tiles shown 1/2 scale

ORDER No. [] [] [] - [] [] - [] []

Illumination:	Colour/s:	Positions:	No. of LEDs:	Colours:	Size of LEDs:	Shape:
S Spot	S Single	L 3 of 9	0-9	R Red,	3 3mm	F Flat
R Rear	M Multi	Q 6.8		Y Yellow,	5 5mm	D Dome
		K 4.2		G Green,		
		J 12		B Blue,		
		N 8		T Tri,		
		U C1R1		D Dual		

Model Number Structure - Tiles



90.00.01.RXC.TL-007.00

Series	
90 Series Mosaic	

Types	
00	LED Modules
00	Semaphore
00	Mimic

Tiles	
01	24 X 24
02	24 X 48
03	48 X48

No. of Rows & Column	
Refer page no. 16	

Annunciator Window	
00	Without
01	With

Tiles Color (*)	
*	Refer page no. 15

Cut-out Size Calculation Drawing

Plastic or Aluminum Alloy Grid System with Extruded Aluminum Surround

* ACTUAL MOSAIC SIZE(TILE Dimension)

** ACTUAL CUT-OUT

*** OVER ALL DIMENSION

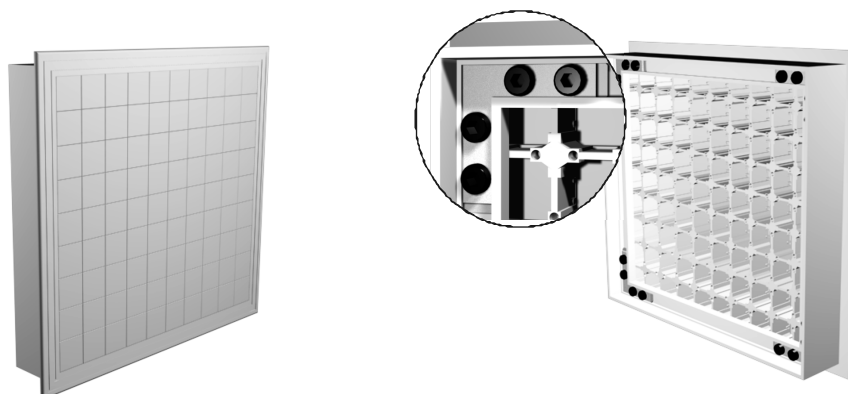
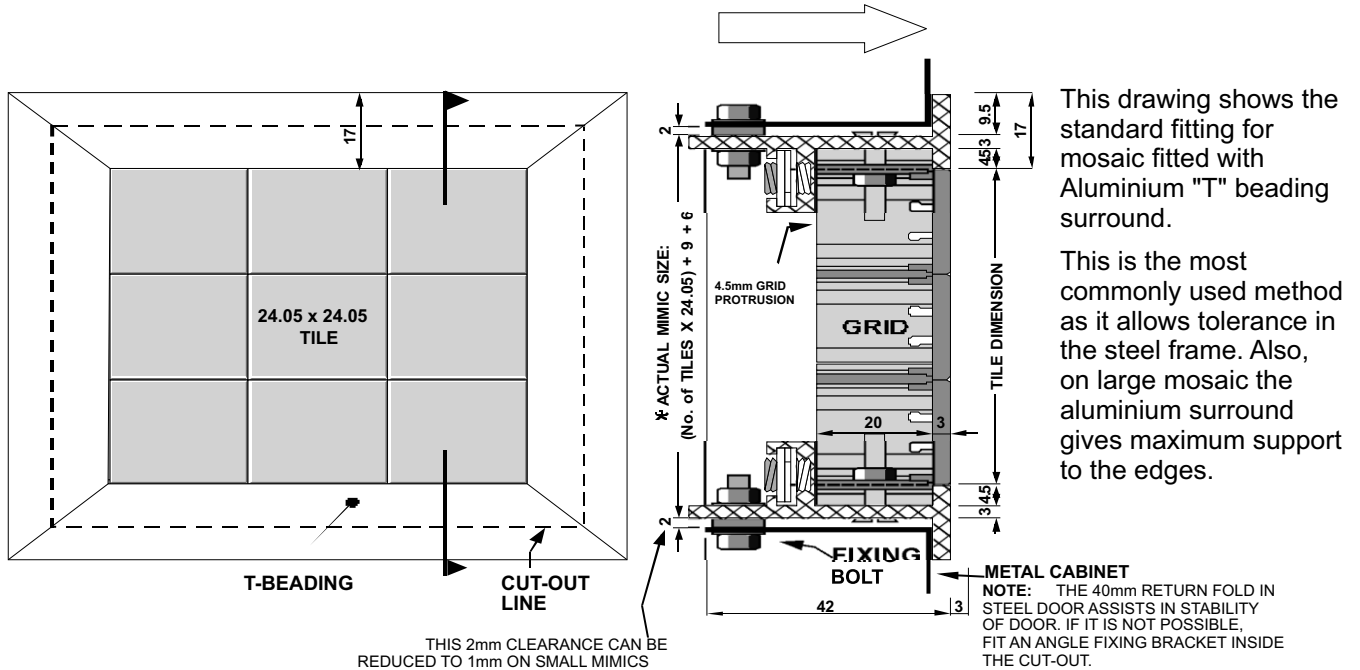
	No. of Tiles (W&H)		Tile Size	Grid Protrusion	T-Beading		*	Clearance		**	****
Rows :	20	X	24.02	9	6	Total	495	4	Cut-Out	499	514
Columns :	16	X	24.02	9	6	Total	399	4	Cut-Out	403	418

Note: * Actual Mosaic Size Formulae is: - {No. of tiles high / wide x [Tile size + Grid Protrusion + T-Beading]}

** To obtain the cut-out size in the cabinet add 4mm to each dimension (Width & Height) - This allows 2mm clearance all round.

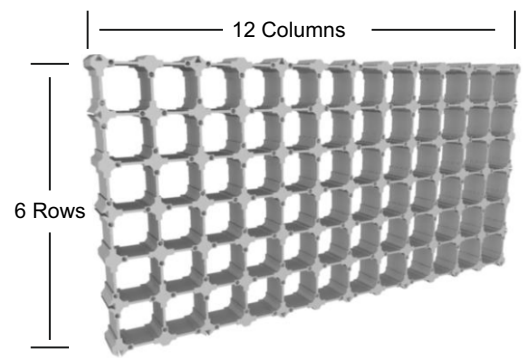
*** An approximate 19mm is added to the TILE dimensions to get the total cut-out size.

**** An approximate 34mm is added to the TILE dimensions to get the over all size.



Actual Mosaic Size Formulae :

No. of tiles rows / columns



X

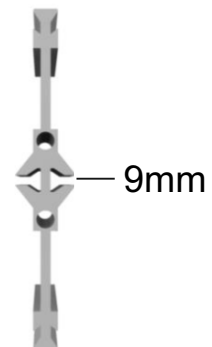
Tiles Size



24 x 24

+

Grid Protrusion



+

T-Beading



Panel Cut-Out Dimensions

Rows	Columns		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	External Dimension	Width (B)	58	72	106	130	154	178	202	226	250	274	298	322	346	370	394	418	442	466	490	514	538	562	586	610	635	659	683	707	731	755
		Height (A)	Panel cutout	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	W	H	
			H																													
1	58	43	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2	82	67	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
3	106	91	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90
4	130	115	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120
5	154	139	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
6	178	163	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156	162	168	174	180
7	202	187	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147	154	161	168	175	182	189	196	203	210
8	226	211	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200	208	216	224	232	240
9	250	235	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180	189	198	207	216	225	234	243	252	261	270
10	274	259	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
11	298	283	11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176	187	198	209	220	231	242	253	264	275	286	297	308	319	330
12	322	307	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312	324	336	348	360
13	346	331	13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234	247	260	273	286	299	312	325	338	351	364	377	390
14	370	355	14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336	350	364	378	392	406	420
15	394	379	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375	390	405	420	435	450
16	418	403	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464	480
17	442	427	17	34	51	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306	323	340	357	374	391	408	425	442	459	476	493	510
18	466	451	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	378	396	414	432	450	468	486	504	522	540
19	490	475	19	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323	342	361	380	399	418	437	456	475	494	513	532	551	570
20	514	499	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600
21	538	523	21	42	63	84	105	126	147	168	189	210	231	252	273	294	315	336	357	378	399	420	441	462	483	504	525	546	567	588	609	630
22	562	547	22	44	66	88	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440	462	484	506	528	550	572	594	616	638	660
23	586	571	23	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391	414	437	460	483	506	529	552	575	598	621	644	667	690
24	610	595	24	48	72	96	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504	528	552	576	600	624	648	672	696	720
25	635	620	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750
26	659	644	26	52	78	104	130	156	182	208	234	260	286	312	338	364	390	416	442	468	494	520	546	572	598	624	650	676	702	728	754	780
27	683	668	27	54	81	108	135	162	189	216	243	270	297	324	351	378	405	432	459	486	513	540	567	594	621	648	675	702	729	756	783	810
28	707	692	28	56	84	112	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	700	728	756	784	812	840
29	731	716	29	58	87	116	145	174	203	232	261	290	319	348	377	406	435	464	493	522	551	580	609	638	667	696	725	754	783	812	841	870
30	755	740	30	60	90	120	150	180	210	240	270	300	330	360	390	420	450	480	510	540	570	600	630	660	690	720	750	780	810	840	870	900

Graphic Colors for Plastic Tiles

Color	RAL - Number	Order Number (*)
Traffic Yellow	1007	TL - 007
Primrose	1012	TL - 008
Pearl White	1013	TL - 009
Lemon	1018	TL - 014
Cadium Yellow	1021	TL - 004
Yellowish Orange	2000	TL - 015
Red Orange	2001	TL - 016
Vermilion	2002	TL - 017
Pure Orange	2004	TL - 018
Luminous Orange	2005	TL - 019
Flame Red	3000	TL - 022
Venetian Red	3002	TL - 023
Ruby Red	3003	TL - 024
Strawberry Red	3018	TL - 026
Red Lilac	4001	TL - 027
Red Violet	4002	TL - 028
Heather Violet	4003	TL - 029
Blue Lilac	4005	TL - 030
Ultramarine Blue	5002	TL - 031
Azure Blue	5010	TL - 032
Light French Blue	5012	TL - 033
Sky Blue	5015	TL - 034
Brilliant Green	6001	TL - 035
Leaf Green	6002	TL - 036
Middle Bronze Green	6003	TL - 037
Grass Green	6010	TL - 038
Emerald Green	6016	TL - 039
Sea Green	6018	TL - 040
Squirrel Grey	7000	TL - 041
Aircraft Grey	7005	TL - 042
Pebble Grey	7032	TL - 047
Light Grey	7035	TL - 048
Dusty Grey	7037	TL - 051
Ocher	8001	TL - 053
Clay Brown	8003	TL - 054
Fawn Brown	8007	TL - 056
Orange Brown	8023	TL - 057
Beige Brown	8024	TL - 058
Jet Black	9005	TL - 059
Pure White	9010	TL - 061

Planning, Suggestions:

Our years of experience with the Mosaic technology has shown that it is advisable to plan installations along with certain guidelines. This simplifies manufacture and delivery.

Console and Display Panel Design:

An important requirement for effective project-planning and processing is the selection of the dynamic components to solve the specific control or monitoring problems.

When selecting the control and indicator components or other equipment, the standard components shown in our catalogues should be given preference. Specially designed equipment should only be incorporated in the project after consulting one of our representatives.

In order to achieve an optimal arrangements of the control and indicator components, measuring instruments, recorders and other equipment in the different functional areas, it is advisable to make a scale drawing of the graphic.

If possible no equipment should be placed into the border tiles.

Framework Design:

As mentioned in page 12 - 15 frameworks, consoles, cabinets and switchboard panels are available in a variety of sizes. These recommended basic designs should be used wherever possible to arrive at the final configuration. Photos of completed installation or sections of installations or selections of installations are available as additional planning aids.

Wiring:

The plug-on components wiring, in conjunction with the distribution blocks, provides an effective interface between the panel and external circuitry. This makes it possible to use standard telecommunication type multi-core cables, which greatly reduces costs, facilitates cable routing, and simplifies the wiring of the marshaling racks.

Terms And Conditions

Please read this catalog before purchasing any products. Please consult your *WERNER* representative for any clarifications or comments.

Application Considerations

WERNER shall not be responsible for conformity with any regulations, codes or standards that apply to use of the products. *WERNER* shall provide applicable third party certification documents identifying ratings and limitations of use that apply to the products in case of the customer's request.

Prevent use the products for an application involving risk to life or property. Be sure that the *WERNER*'s products are properly rated and installed for the overall system or equipment.

WERNER shall not be responsible for the user's programming of a programmable products.

Warranty

WERNER's warranty represents that the products are free from defects in materials and workmanship for a period of one year.

WERNER shall not be responsible for any special loss of profit, commercial loss, indirect or consequential damages relevant to products.

WERNER shall not be responsible for repair, warranty or any claims regarding the products unless *WERNER*'s Analysis confirm that the products were properly stored, installed, handled, maintained and not a result of accident, insufficient, abuse, misuse, natural disaster, improper installation excessive electrical supply, environmental conditions or abnormal mechanical.

Disclaimers

WERNER shall practice to change type/model numbers when published ratings or features are changed, however some specifications of the products may be changed without any notice.

When in doubt, please consult with your *WERNER* representative to confirm actual specifications of products.

WERNER shall change product specifications and accessories at any time based on improvements and other reasons.

The information in this catalog has been carefully checked. However, *WERNER* take no responsibilities for clerical, typographical or proofreading errors.



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Inventing Innovation...

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