

THT LED-Anzeigesysteme

THT LED Display Systems

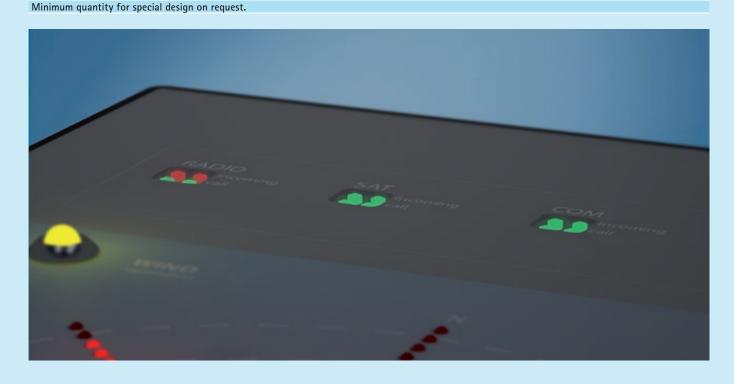
In die Entwicklung dieser Bauteile ist das über Jahrzehnte erworbene Knowhow der Firma MENTOR als Entwickler und Lieferant von Bauelementen für die Industrieelektronik geflossen. Der Einsatz ist überall dort zu suchen, wo Lichtsignale auf Funktionen oder Betriebszustände aufmerksam machen sollen und müssen. Die Vielfalt der Bauelemente erstreckt sich von Einzel- und Mehrfachanzeigen sowie Leisten in unterschiedlichsten Ausführungen bis hin zu Lampenfassungen.

Bei den mit FEL gekennzeichneten LED-Bausteinen handelt es sich um Frontplatten-Einbauelemente, die als Anzeigeelemente für das 19"-Aufbausystem entwickelt wurden. Das System baut auf einem Grundrastermaß von 2,54 mm auf. Die Gehäuse sind mit seitlichen Stegen und Nuten versehen, die beim Anreihen ineinandergreifen. Bei Bedarf sind Möglichkeiten zur Stapelung gegeben. Zum 19"-Aufbausystem passende Schalter, Schalt- und Prüfbuchsen, Potentiometer sowie Sicherungshalter für G-Sicherungseinsätze finden Sie in unserem THT-Katalog. The development of these components has benefited from MENTOR's expertise, acquired over decades as a developer and supplier of components for industrial electronics. These components can be used wherever light signals should and must alert functions or operating states. The variety of components ranges from individual and multi-displays and slats in a wide range of designs right up to light sockets.

The LED modules described as FEL are front panel assembly elements that have been developed as display elements for the 19-inch structure system. The system is based on a basic grid size of 2.54 mm. The casings are provided with guide rails and grooves that intersect with each other when connecting. Opportunities for stacking exist if required. Switches, switch sockets, and test sockets, potentiometers, and fuse holders for miniature fuse links can also be found in our THT catalog.

Allgemeine technische Daten	(Auswahl bzw. Abweichungen zu den folgenden allgem. Daten: siehe Beschreibung des jeweiligen Artikels)
Lötbarkeit	DIN EN 60068-2-20 (260 °C ≤ 5s)
Anschlüsse	verzinnt
Betriebstemperatur	-40°C +85°C
Klima	GPF DIN 40040
Beschriftung	auf Sonderwunsch bedruckt oder gelasert
LEDs	Technische Daten: siehe Seite 78/79
Sonderwünsche	Sonderbestückung, Verwendung von zusätzlichen Fixierpins sowie vertauschte Polarität auf Anfrage möglich.
Mindesthestellmengen für Son	nderausführungen auf Anfrage

General Technical Data	(Selection and deviations from the following general data: see description of the respective item)
Solderability	DIN EN 60068-2-20 (260 °C ≤ 5s)
Terminals	tinned
Operating temperature	-40 °C +85 °C
Climate	GPF DIN 40040
Marking	On special request printed or laser printed
LEDs	Technical data: see page 78/79
Special requirements	Special components, use of additional fixing pins and reverse polarity on request





Einzel- und Doppel- LEDs ø3 mm liegend

Single and Double LEDs ø3 mm horizontal

Allgemeine Hinweise und Technische Daten	General Remarks and Technical Data
Allgemeine Hinweise und Technische Daten: siehe Seite 28	General remarks and technical data: see page 28
Technische Daten LEDs: siehe Seite 78/79	Technical data LEDs: see page 78/79
Spezifische Technische Daten	Specific Technical Data
Spezifische Technische Daten Gehäusewerkstoff: PC UL94 schwarz	Specific Technical Data Housing Material: PC UL94 black

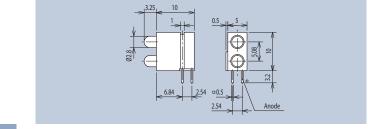
Dieser Baustein vereint technische Funktionalität mit hoher anwendungstechnischer Variabilität. Die LED-Elemente sind in beliebiger Farbbelegung lieferbar und berücksichtigen die maßgeblichen Normen der Industrie-Elektronik.

This component combines technical functionality and a high variability of application technology. The LED elements are available in any color and meet the ruling norms of industrial electronics.









Standard Ausführung · Standard Version										
Farbe unten Color bottom Color top		LED-Type unten LED-Type bottom	LED-Type oben LED-Type top	ArtNr.						
-		bright red	-	A1	1801.0231					
-		yellow	-	A3	1801.0731					
-		green	-	A4	1801.0831					
-		blue	-	A51	1801.0631					
heff-red		-	A2	-	1801.1031					
bright red		-	A1	-	1801.2031					
yellow		-	A3	-	1801.7031					
green		-	A4	-	1801.8031					
blue		-	A51	-	1801.6031					
heff-red		heff-red	A2	A2	1801.1131					
bright red		bright red	A1	A1	1801.2231					
red		yellow	A1	A3	1801.2731					
red		green	A1	A4	1801.8231					
yellow		bright red	A3	A1	1801.1831					
yellow		yellow	A3	A3	1801.7731					
yellow		green	A3	A4	1801.8731					
green		bright red	A4	A1	1801.2831					
green		yellow	A4	A3	1801.2131					
green		green	A4	A4	1801.8831					

	Low Current Ausführung · Low Current Version									
Farbe unten Color bottom			arbe oben Color top	LED-Type unten LED-Type bottom	LED-Type oben LED-Type top	ArtNr.				
	-	heff-red		-	A9	1801.0233				
	-		green	-	A11	1801.0833				
	heff-red		-	A9	-	1801.2033				
	yellow	-		A10	-	1801.7033				
	green	-		- A11		1801.8033				
	heff-red	heff-red		A9	A9	1801.2233				
	yellow		heff-red	A10	A9	1801.7233				
	yellow		yellow	A10	A10	1801.7733				
	green		heff-red	A11	A9	1801.8233				
	green		yellow	A11	A10	1801.8733				
	green		green	A11	A11	1801.8833				



Technische Daten LEDs

Technical Data LEDs

LED-Type	Emission Color	Wavelength λ (nm)	n) Voltage I _V (mcd)					at	Fwd. Current I _F	Rev. Voltage	2φ (50% l _v)	
		dominant		typ	(V) max	min	typ	max	mA	max (mA)	V _R (V)	deg.
THT									10			
A1	bright red	660	red diffused	2.25	2.5	1.2	-	4	20	25	5	60
A2	high efficiency red	625	red diffused	2	2.5	15	-	30	10 20	30	5	60
А3	yellow	588	yellow diffused	2.1	2.5	10	-	20	10 20	30	5	60
A4	green	568	green diffused	2.2	2.5	10	-	20	10 20	25	5	40
A5	bright red	660	red diffused	2.25	2.5	4	_	10	10	25	5	60
A6	high efficiency red	625	red diffused	2	2.5	30	_	80	20 10	30	5	60
A7	,	588			2.5	15			20 10	30	5	60
	yellow		yellow diffused	2.1			-	30	20 10			
A8	green	568	green diffused	2.2	2.5	15	-	30	20	25	5	60
A9	high efficiency red	625	red diffused	1.7	2.5	1.2	-	4	2	30	5 5	60 60
A10 A11	yellow green	588 568	yellow diffused green diffused	1.85 1.9	2.5 2.5	1.2 1	-	4 5	2	30 25	5	60
	- J								2			
A12 A13	high efficiency red	625 588	red diffused yellow diffused	1.85	2.5	4	-	10 5	20 2	30	5 5	60
A13	yellow	568	green diffused	2.2	2.5	1	_	5	2	25	5	60
									20 10			
A22	bright red	660	red diffused	2.25	2.5	1	-	5	20 10	25	5	70
A23	yellow	588	yellow diffused	2.1	2.5	5	-	17	20	30	5	70
A24	green	568	green diffused	2.2	2.5	5	-	17	10 20	25	5	70
A25	bright red	660	red diffused	2.25	2.5	1.2	-	6	10 20	25	5	60
A27	yellow	588	yellow diffused	2.1	2.5	6	-	20	10 20	30	5	60
A28	green	568	green diffused	2.2	2.5	6	-	20	10 20	25	5	60
A29	high efficiency red	625	red diffused	2	2.5	70	_	220	20	30	5	60
A30	yellow	588	yellow diffused	2.1	2.5	36	-	90	20	30	5	60
A31	green	568	green diffused	2.2	2.5	36	-	90	20	25	5	60
A32	high efficiency red	625	red diffused	2	2.5	36	100	-	20	30	5	60
A33	yellow	588	yellow diffused	2.1	2.5	20	-	50	20	30	5	60
A34	green	568	green diffused	2.2	2.5	40	-	60	20 10	25	5	60
A38	bright red	660	red diffused	2.25	2.5	0.5	-	1.2	20	25	5	100
A40	yellow	588	yellow diffused	2.1	2.5	3	-	12	10 20	30	5	100
A41	green	568	green diffused	2.2	2.5	3	-	12	10 20	25	5	100
A42	bright red	660	red diffused	2.25	2.5	1	-	5	10 20	25	5	100
A44	yellow	588	yellow diffused	2.1	2.5	3	-	12	10 20	30	5	100
A45	green	568	green diffused	2.2	2.5	1	-	5	10 20	25	5	100
A46	high efficiency red	625	red diffused	2	2.5	3	-	7	10	30	5	110
A47	yellow	588	yellow diffused	2.1	2.5	1.8	_	7	20 10	30	5	110
A48	green	568	green diffused	2.2	2.5	2	_	10	20 10	25	5	110
	high efficiency	617		2.2	2.5	8		20	20 20	30	5	60
A49	red/green	568	white diffused	2.2	2.5	8	100	40	20	25	-	60
A51 A52	blue blue	466 466	blue transparent blue transparent	3.8	4.5 4.5	18 70	100 200	-	20 20	30 30	5 5	50 30
A60	high efficiency red	625	red diffused	5.7	7.5	18	61.56	_	10	60	15	120
A61	yellow	588	yellow diffused	5.85	7.5	7	37.18	-	10	60	15	120
A62	green	568	green diffused	6	7.5	18	53.3	-	10	50	15	120
A69	super red	622-634	red diffused	2	2.5	6.3	-	20	10	40	12	50



Technische Daten LEDs

Technical Data LEDs

THT	LED-Type			Lense Color		ward		nous Int		at	Fwd.	Rev.	2φ
THI			λ (nm)						Current I _F	Voltage	(50% l _v)		
No. Yellow S80-595			dominant				min	tvn	max	mΔ		V _R (V)	deg.
A71	THT		dominant		-75	mux		сур	mux		(117.5)	(•)	ucgi
A72	A70	yellow	580-595	yellow diffused	2	2.5	7.1	-	18	10	40	12	50
A76 high efficiency redigreen redigreen 625 redigreen white diffused 2 2 2.5 5 5 - 20 20 20 30 20 20 25 5 5 70 20 20 20 20 20 20 20 20 20 20 20 20 20	A71	green	564-576	green diffused	2	2.5	7.1	-	18	10	40	12	50
A77	A72	super red	622-634	red diffused	2	2.5	7.1	-	18	10	40	12	70
A78 yellow 588 yellow transparent 2.1 2.5 50 - 120 10 20 30 9 A79 green 568 green transparent 2.2 2.5 50 - 120 10 25 9 A83 high efficiency red 625 red transparent 2 2.5 30 - 80 10 30 9 A84 yellow 588 yellow transparent 2.1 2.5 20 - 50 10 30 9 A85 green 568 green transparent 2.1 2.5 30 - 50 10 20 30 9 25 9 9 20 30 9 25 9 9 20 30 9 20 30 9 20 30 9 20 30 9 20 30 9 20 30 9 20 30 30 9<	A76			white diffused			5 5	-				-	70 70
A79 green 568 green transparent 2.1 2.5 50 - 120 20 30 3 4 4 3 1 2.5 - 100 30 6 6 6 12-625 red diffused 2.4 3 4 - 32 10 30 6 6 6 12-625 red diffused 2.4 3 4 - 20 10 30 6 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 10 - 32 10 30 6 6 12-625 red diffused 2.4 3 10 - 32 10 30 6 6 12-625 red diffused 2.4 3 10 - 32 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 10 - 32 10 30 6 6 12-625 red diffused 2.4 3 10 - 32 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.4 3 6.3 - 20 10 30 6 6 12-625 red diffused 2.2 2.5 5 0 0 - 20 20 30 6 6 12-625 red diffused 2.2 2.5 5 0 0 - 20 30 6 12-625 red diffused 2.2 2.5 5 0 0 - 20 30 6 12-625 red diffused 2.2 2.5 5 0 0 - 20 25 12-625 red diffused 2.2 2.5 5 0 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12-625 red diffused 2.2 2.4 2.5 5 0 - 20 25 12	A77	super bright red	640	red diffused	1.85	2.5	280	400	-	20	30	5	60
A83 high efficiency red 625 red transparent 2.1 2.5 30 - 120 20 25 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	A78	yellow	588	yellow transparent	2.1	2.5	50	-	120	20	30	5	30
A84 yellow 588 yellow transparent 2 2.5 30 - 80 20 30 5 4 6 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7	A79	green	568	green transparent	2.2	2.5	50	-	120	20	25	5	30
A85 green 568 green transparent 2.1 2.5 20 - 50 20 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	A83	high efficiency red	625	red transparent	2	2.5	30	-	80	20	30	5	50
C5	A84	yellow	588	yellow transparent	2.1	2.5	20	-	50	20	30	5	50
C5	A85	green	568	green transparent	2.1	2.5	30	-	50		25	5	50
C12 red 630 red diffused 2 3 4 - 32 20 20 6 6 6 6 7 12.5 20 30 6 6 6 7 12.5 20 30 6 6 6 7 12.5 20 30 6 6 6 7 12.5 20 30 6 6 7 12.5 20 30 6 6 7 12.5 20 30 6 6 7 12.5 20 30 6 6 7 12.5 20 30 6 6 7 12.5 20 30 6 6 7 12.5 20 30 8 10 8 10 8 10 8 10 8 10 8 10 8 10	C5			white diffused		3			-	20 10	30	6	60
C14 green 562-575 green diffused 2.4 3 4 - 20 10 30 6 C15 red 612-625 red diffused 2 3 6.3 - 20 10 30 6 C16 yellow 581-594 yellow diffused 2.4 3 6.3 - 20 10 30 6 C17 green 562-575 green diffused 2.4 3 6.3 - 20 10 30 6 C18 yellow 581-594 yellow diffused 2.4 3 6.3 - 20 10 30 6 C19 green 562-575 green diffused 2.4 3 10 - 32 10 30 6 C10 high efficiency 625 red/green 568 white diffused 2.2 2.5 10 50 - 20 30 25 6 C10 green 560 red diffused 2.2 2.5 10 30 - 20 25 6 C11 green 560 red diffused 2.2 2.5 10 30 - 20 25 6 C12 green 568 red diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C13 super bright red 660 red diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C15 green diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C17 green 568 green diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C18 green diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C19 green diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C10 green diffused 2.2 2.5 2.5 0.4 - 3 20 25 6 C10 green diffused 2.2 2.5 2.6 10 - 20 30 6 C10 green diffused 2.2 2.4 40 80 - 20 25 6 C10 green diffused 2 2.4 40 80 - 20 25 6 C10 green diffused 2 2.4 40 80 - 20 25 6 C10 green diffused 2 2.4 40 80 - 20 25 6 C10 green diffused 2 2.4 5 50 - 20 25 6 C10 green diffused 2 2.4 5 50 - 20 25 6 C10 green diffused 2 2.4 6.3 12.5 - 20 25 6 C10 green diffused 2 2.4 6.3 12.5 - 20 25 6 C10 green diffused 2 2.4 6.3 12.5 - 20 25 6 C10 green diffused 2 2.4 6.3 12.5 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C10 green diffused 2 2.4 10 20 - 20 25 6 C1	C12	red	630	red diffused	2	3	4	-	32		20	6	40
C15 red 612-625 red diffused 2 3 6.3 - 20 10 20 30 60 C16 yellow 581-594 yellow diffused 2.4 3 6.3 - 20 10 20 30 C17 green 562-575 green diffused 2.4 3 10 - 32 10 30 C18 C17 green 568 white diffused 2.2 2.5 10 30 - 20 30 25 61 C19 per	C13	yellow	581-594	yellow diffused	2.4	3	2.5	-	12.5	20	30	6	40
C16 yellow 581-594 yellow diffused 2.4 3 6.3 - 20 20 30 6.7 C17 green 562-575 green diffused 2.4 3 10 - 32 10 30 6.7 C17 green 568 white diffused 2.4 3 10 - 32 10 30 6.7 C17 green 568 white diffused 2.2 2.5 10 30 - 20 25 6.8 G1 bright red 660 red diffused 2.2 2.5 10 30 - 20 25 6.9 G2 yellow 588 yellow diffused 2.1 2.5 2.6 10 - 20 30 6.9 G3 super bright green 568 green diffused 2.2 2.5 2.6 10 - 20 30 6.9 G3 super yellow 589 red diffused 2.2 2.5 2.5 0.4 - 3 20 25 6.9 G1 Super yellow 589 yellow diffused 2.2 2.4 40 80 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 40 80 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yellow diffused 2 2.4 6.3 12.5 - 20 25 6.9 G1 Super yellow 589 yel	C14	green	562-575	green diffused	2.4	3	4	-	20	20	30	6	40
C17 green 562-575 green diffused 2.4 3 10 - 32 10 30 6 10 10 10 10 10 10 10 10 10 10 10 10 10	C15	red	612-625	red diffused	2	3	6.3	-	20		30	6	60
High efficiency red/green So2-5/5 White diffused 2.4 3 10 - 32 20 30 10 10 10 10 10 10 1	C16	yellow	581-594	yellow diffused	2.4	3	6.3	-	20	20	30	6	60
Fred/green S68 Write diffused 2.2 2.5 10 30 - 20 25 5 5 5 5 5 5 5 5	C17	green	562-575	green diffused	2.4	3	10	-	32		30	6	60
G2 yellow 588 yellow diffused 2.1 2.5 2.6 10 - 20 30 9 G3 super bright green 568 green diffused 2.2 2.5 2.6 10 - 20 25 9 H1 super deep red 639 red diffused 2 2.4 40 80 - 20 25 9 H2 super yellow 589 yellow diffused 2 2.4 25 50 - 20 25 9 H3 super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 9 H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white -	E3			white diffused					-			5 5	60 60
G3 super bright green 568 green diffused 2.2 2.5 2.6 10 - 20 25 9 H1 super deep red 639 red diffused 2 2.4 40 80 - 20 25 9 H2 super yellow 589 yellow diffused 2 2.4 25 50 - 20 25 9 H3 super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 9 H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9	G1	bright red	660	red diffused	2.25	2.5	0.4	-	3	20	25	5	40
H1 super deep red 639 red diffused 2 2.4 40 80 - 20 25 9 H2 super yellow 589 yellow diffused 2 2.4 25 50 - 20 25 9 H3 super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 9 H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9	_	_ ′							-			5	40
H2 super yellow 589 yellow diffused 2 2.4 25 50 - 20 25 9 H3 super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 9 H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9	-	1 3 3		J					-			5	40
H3 super yellow green 573 green diffused 2 2.4 6.3 12.5 - 20 25 9 H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9	_											5	100
H4 hyper red 624 red diffused 2 2.4 10 20 - 20 25 9 M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9	_	_ · · ·										5	100
M2 white - colorless clear 3.6 4 3900 - 11000 20 30 9 W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25 9		1 / 3										5	60
W1 white - colorless clear 3.2 3.8 1400 - 3550 5 25												5	100
												5 5	20 45
Araus		wnite	-	coloriess clear	3.2	3.8	1400		3550	5	25	5	45
		super red	628	red clear	2.1	2.5	35.5	_	71	15	40	12	

Symbole

Symbols

Besonderheiten · Specifics



Produktneuheit New product



Sehr hoher ESD-Schutz zur Frontplatte bzw. Gehäusefront. Very high level of ESD protection for the front panel.



FEL Frontplatten-Einbauelemente zur Nutzung als Anzeigeelemente für das 19"-Aufbausystem. Front panel assembly elements for use as display elements for the 19-inch structure system.

Kundenspezifisch · Customised



Kundenspezifische Ausführung möglich. Zu Details siehe Seite 4/6. Customised solutions available. For details see page 4/6.



Lagermäßig geführte Artikel (Art.-Nr. in Fettdruck) liefern wir mit geringen Mindestbestellmengen und kurzen Lieferzeiten. Parts, that are available ex-stock (Part No. in **bold**) are delivered with small MOQs and short delivery times.



Mindestbestellmenge für Nicht-Lagerhaltige-Artikel (Art.-Nr. in Magerdruck). Lieferzeit auf Anfrage.

Minimum quantity for manufacture of non-stocked part nos. (in normal font): delivery time on request.



Mindestbestellmenge für Sonderlängen (Länge A). Lieferzeiten und andere Sonderversionen auf Anfrage. Minimum quantity for customer defined "Length A": delivery times and other customisation on request.