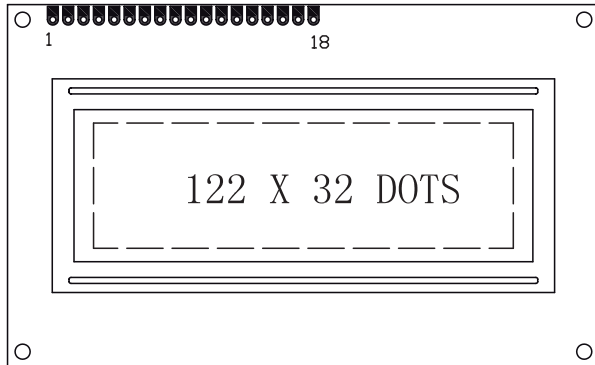


### GS 12232 B

### LCD- Standard Grafikmodul



#### Hauptmerkmale

- 122 x 32 dots
- Einstellbarer Kontrast
- STN- Technologie

#### Optionen

- LED / EL- Beleuchtung
- Erhöhter Temp. Bereich
- Farbige Reflektoren
- TN-FSTN Technologie

Kontroller: AX6120DOA

#### PIN Belegung

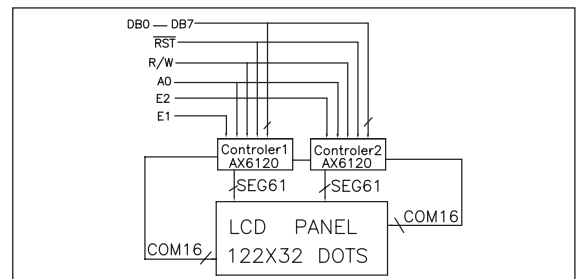
| PIN | SYMBOL | SIGNAL DESCRIPTION           |
|-----|--------|------------------------------|
| 1   | Vss    | Power Supply (GND)           |
| 2   | Vdd    | Power Supply (+5V)           |
| 3   | Vo     | Contrast Adjust              |
| 4   | AO     | Instruction / Data Selection |
| 5   | E1     | Enable Signal for Chip 1     |
| 6   | E2     | Enable Signal for Chip 2     |

| PIN  | SYMBOL  | SIGNAL DESCRIPTION              |
|------|---------|---------------------------------|
| 7    | R/W     | Read/Write Control              |
| 8-15 | DB0-DB7 | Data Bus Line                   |
| 16   | RST     | Reset and Select Interface Type |
| 17   | A       | Power Supply for Backlight (+)  |
| 18   | K       | Power Supply for Backlight (-)  |

#### Spezifikationen (TA=25 °C)

| ITEM                   | SYMBOL          | CONDITION | MIN.   | TYP. | MAX. | UNIT |
|------------------------|-----------------|-----------|--------|------|------|------|
| Supply Voltage (Logic) | Vdd-Vss         | -         | 4.5    | 5.0  | 5.5  | V    |
| Supply Current (Logic) | Idd             | Vdd=5.0V  | -      | 2.07 | -    | mA   |
| Driving Current (LCD)  | Iee             | Vee=4.2V  | -      | 1.46 | -    | mA   |
| Driving Voltage (LCD)  | Vdd-Vee         | -         | -      | 5.6  | -    | V    |
| Input Voltage "H"      | V <sub>IH</sub> | H         | 0.8Vdd | -    | Vdd  | V    |
| Input Voltage "L"      | V <sub>IL</sub> | L         | Vss    | -    | 0.8  | V    |
| Output Voltage "H"     | V <sub>OH</sub> | H         | 2.4    | -    | -    | V    |
| Output Voltage "L"     | V <sub>OL</sub> | L         | -      | -    | 0.4  | V    |

#### Block Diagramm



#### Mechanische Abmessung

