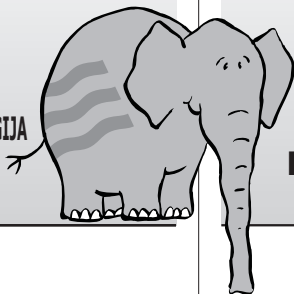


BEZBEDONSA TEHNOLOGIJA
ZA ZAŠTITU
ZIVOTNE SREDINE



SAFETY AND
ENVIRONMENTAL
TECHNOLOGY

E.L.B.
FÜLLSTANDSGERÄTE

14-03-01E

Svetleći displeji niza Tip TK-320

Horizontalna instalacija na razvodniku

Tip TK-321

Vertikalna instalacija na razvodniku

Tip TK-322

19"-jedinica sa utikačem, 3HE, 7TE

E.L.B. svetleći displeji niza tipa iz serije TK-320...TK-322 se koriste za procese vizuelnog prikazivanja stanja kao što su nivoi ispunjavanja.

Kroz njihov dizajn u kom se koriste jako svetleće diode koje emituju svetlost oni su idealni za primenu u problematičnim uslovima, na primer, u okolini koja je već obojena ili svetlih boja.

Osvetljeni niz dozvoljava opšti pregled stanja procesa čak i iz veće daljine.

Kroz ulazni priključak ulazni signali 0 (4)... 20mA, 0... 10V DC ili "Ferngeber" (bar 5 kΩ) mogu da se priključe.

Kroz ulazne signale, kao što su struja nezavisna od tereta u standardnom obimu (0/4...20 mA) ove jedinice displeja mogu se koristiti u svim mogućim situacijama.

U kombinaciji sa našim instrumentima za merenje nivoa tečnosti iz serije TK-30_ i procenjivačima iz serije TK-31_, ovi svetleći displeji niza obezbeđuju optimalnu kombinaciju uređaja za signalizaciju nivoa tečnosti.

Različite forme kombinacija obezbeđuju korisniku mogućnost da izabere verijantu koja mu najviše odgovara za instalaciju određenog tipa.

TK-322 svetleći displej niza može da se koristi u modulima 19" kao utična ploča. Tipovi TK-320 i TK-321 su dizajnirani za instalaciju svetlećih displeja niza na razvodnim pločama, itd.

Luminous Row Displays Type TK-320

horizontally switchboard installation

Type TK-321

vertically switchboard installation

Type TK-322

19" plug-in unit, 3HE, 7TE

E.L.B. luminous row displays of type series TK-320...TK-322 are used for visually displaying process states such as filling levels.

Through their design using strongly illuminating light-emitting diodes they are ideal for difficult applications, e.g. with light coloured surroundings.

The luminous row permits a general view of the process state even from a distance.

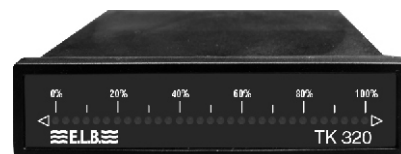
To the input switch input signals 0 (4)... 20 mA, 0... 10 V DC or "Ferngeber" (at least 5 kΩ) can be attached.

Through the input signals, such as load-independent current in the standard range (0/4...20 mA) these display units can be used in all applications.

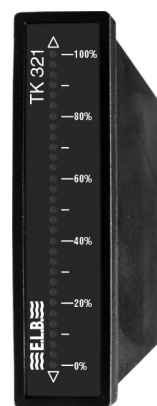
In combination with our liquid level measuring instruments of the type series TK-30_ and the evaluators of our type series TK-31_, these luminous row displays provide an optimum device combination for signalling liquid levels.

The various forms of combinations permit the user to select the variant most suitable for his particular installation.

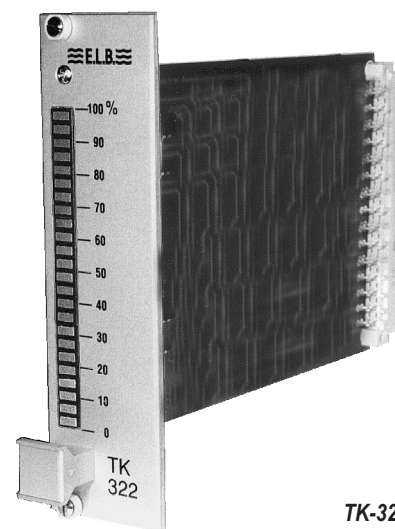
The TK-322 luminous row display can be used as a plug-in board in 19" modules. Types TK-320 and TK-321 are designed for installation of luminous row displays in switchboards etc.



TK-320



TK-321



TK-322

Detalji o sistemu

Instrumenti za merenje nivoa tečnosti TK-30... --vidite sekciju 11.
Merni transduktori TK-100 i TK-312-vidite sekciju 14.

System Details

Liquid level measuring instruments TK-30... please see section 11.
Measuring transducers TK-100 and TK-315 please see section 14.

AUSWERTEGERÄTE • ANZEIGEN / EVALUATION AND DISPLAY UNITS



Tehnički podaci

Dizajn

TK-320, TK-321 Ugradjeno kućište za instalaciju u razv. kućištima/razvodnicima 24x96mm

TK-322 19" Ploča sa utikačem za instalaciju u 7 TE, 3 HE

Sistem zašt. DIN 40050 IP 40

Operativna temperatura -20 °C...+60 °C

Procenjena voltaža 24 V DC...230 V AC

Displej:

Broj dioda koje emituju svetlost

33 crvene ili zelene

Rezolucija oko 3,5 %

Greška ± 1 LED

Ulaz:

0(4)...20 mA
0...10 V DC
5...10kΩ

Izlaz:

4...20 mA
Opterećenje max. 500 Ω

Releji:

2 x prekidači promenljive veze
max. 230 V
min. 5 V
max. 3 A
min 1 mA

Ključ tipa

Osnovne oznake

Dizajn:

0 = prednja ploča ugradjeno kućište horizontalno
1 = prednja ploča ugradjeno kućište vertikalno
2 = ploča sa utikačem 160*100 3HE/7TE

Dioda koje emituju svetlost

0 = crvena
1 = zelena

TK-32

Technical Data

Design

TK-320, TK-321 built-in housing for installation in switchboards / switch cabinets 24 x 96 mm

TK-322 Plug-in board for installation in 19" support, 7 TE, 3 HE

System of protection DIN 40050 IP 40

Operating temperature -20 °C...+60 °C

Rated voltage 24 V DC...230 V AC

Display:

Number of light-emitting diodes 33 red or green

Resolution approx. 3,5 %

Error max. ± 1 LED

Input:

0(4)...20 mA
0...10 V DC
5...10kΩ

Output:

4...20 mA
load max. 500 Ω

Relais:

2 x change-over switch
max. 230 V
min. 5 V
max. 3 A
min 1 mA

Type Key

Grundbezeichnung der Leuchtbandanzeigen

Designs:

0 = front panel built-in housing horizontally
1 = front panel built-in housing vertically
2 = plug-in board 160*100 3HE/7TE

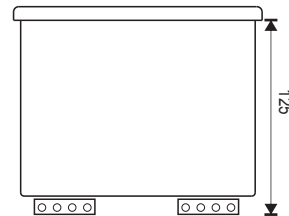
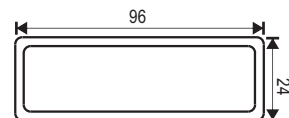
Light-emitting diodes

0 = red
1 = green

TK-32

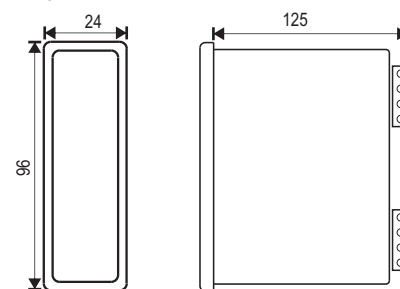
Dimenzioni crtež / Dimensional Drawing

TK-320



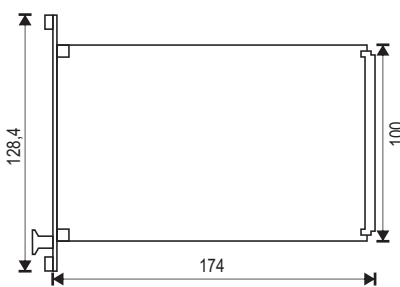
Dimenzije u mm / Dimensioning in mm

TK-321



Dimenzije u mm / Dimensioning in mm

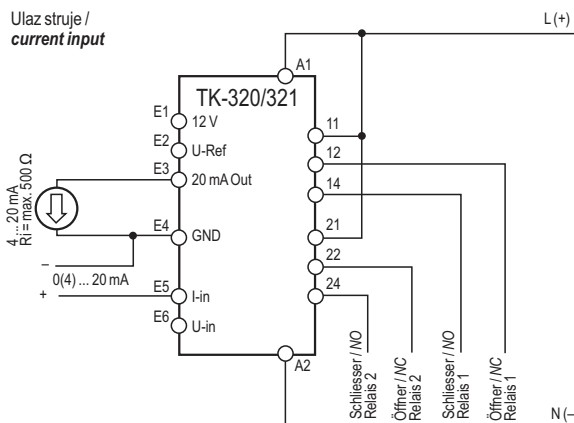
TK-322



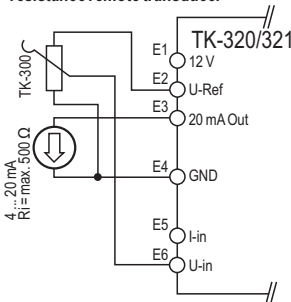
Dimenzije u mm / Dimensioning in mm

Primeri povezivanja / Connection Examples

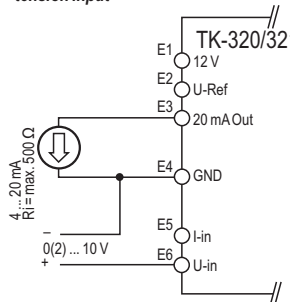
Ulaz struje /
current input



Daljinski transdudktor otpora /
resistance remote transducer



Ulaz napona /
tension input



Podložno promeni bez prethodne najave,
greške izuzete.

Subject to change without prior notice,
errors excepted.