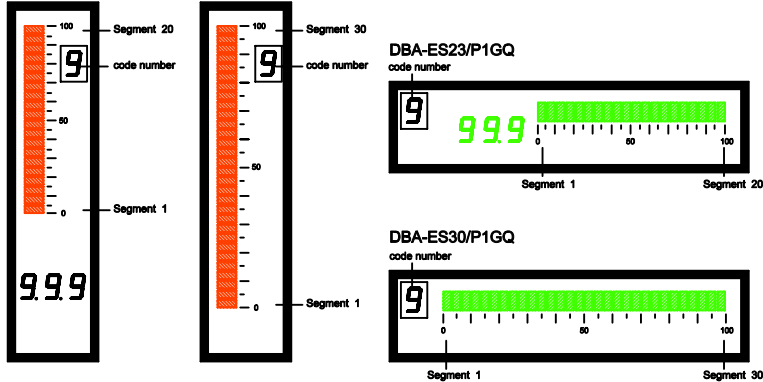


Type: DBA-ESxx/P1xx Profibus DP

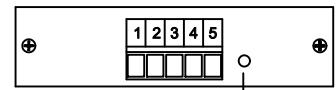
case 96 x 24 mm

DBA-ES23/P1RH

DBA-ES30/P1RH



rear view



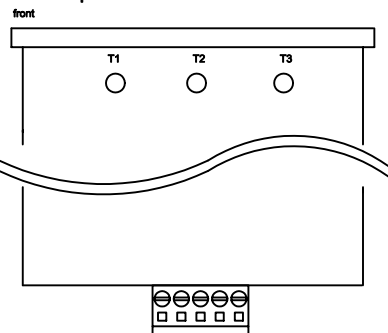
Data Exchange Mode

programming

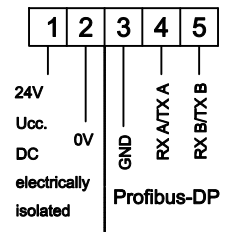
CN = code number

..ES23..		..ES30..		description
CN	display	CN	light-bar	
0	0 0 0 1 2 7			address 1. device 128. device select digit with T2 adjust digit with T1
1	0 1			code BCD ASCII (only DBA-ES23)
		0		the address results in before adjusting address-figures (CN 0 to 2) address-figure 10 ² (valence 0 - 1)
		1		address-figure 10 ¹ (valence 0 - 9)
		2		address-figure 10 ⁰ (valence 0 - 9)
	EEP			data will saved, after that device changes back to standard mode

case top view



rear connector with
screw-type terminals



technical data

power supply:	18 - 35 VDC
power consumption:	max. 1,8 VA
temperature range:	0 ...50 °C
scale length: DBA-ES23:	50 mm 20 segments
DBA-ES30:	75 mm 30 segments
baud-rate (self-acting recognition):	≤ 12MBAud
address (0 ...127):	adjustable with keys on top-side
protocol:	Profibus-DP
hardware:	SPC3 busside electrically isolated
panel cutout:	92(+0,8) x 22,2(+0,3) mm
bezel height:	7,5 mm
mounting depth:	91 mm

telegram structure ASCII

Byte	only DBA-ES23	ASCII
1.	Segment 1-8	binär
2.	Segment 9-16	binär
3.	Segment 17-20	binär
4.	Digit 1 = 10 ⁰	3xH
5.	Digit 2 = 10 ¹	3xH
6.	Digit 3 = 10 ²	3xH
7.		
8.	free	

comma at every position insertable

telegram structure BCD

Byte	function DBA-ES30	function DBA-ES23
1.	Segment 5 8 7 6 5 4 3 2 1	Segment 5 8 7 6 5 4 3 2 1
2.	Segment 16 16 15 14 13 12 11 10 9	Segment 16 16 15 14 13 12 11 10 9
3.	Segment 24 24 23 22 21 20 19 18 17	free Segment 20 20 19 18 17
4.	free free free free	Digit 10 ¹ Digit 10 ⁰
5.	free free free free	free free free free
6.	free free free free	free free free free
7.	free free free free	free free free free
8.	free free free free	comma Display

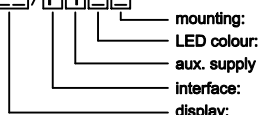
character format

Hex	20	2C	2D	2E	30	31	32	33	34	35	36	37	38	39	3D	41	43	45	46	48	4C	50	55	5D	5F	62	63	64	68	6E	72	75	78	7E
Digit	.	-	0	1	2	3	4	5	6	7	8	9	=	A	C	E	F	H	L	P	U]	_	b	c	d	h	n	o	r	u	□	†	

unknown sign



DBA - ES - / P 1



H = vertical	Q = horizontal
R = red	G = green
1 = 24 VDC	
P = Profibus DP	
23 = 20 segments + 3 digit LED	30 = 30 segments

DBA - ES - / P 1

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