





Key explanation – Display mode





Button	Function
	Scroll up in the menu
	Scroll down in the menu
	Press for 3 seconds to enter the setting mode
	Immediately starts an additional work cycle for the set time or the set cycles Resets all alarms

Key explanation – Setting mode

In this mode you can access all the setting parameters of the timer and alarms and change these.

To enter the setting mode press  for 3 seconds




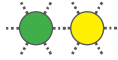
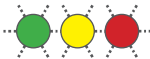
To save the setting of all changes made, press  for at least 5 seconds

Button	Function
	Scroll up in the menu Increase the value of a parameter
	Scroll down in the menu Decrease the value of a parameter
	Press 3 seconds to enter setting mode Press for 5+ seconds saves changes and switches modes
	Access to the configuration of a parameter Confirms the parameter and returns to the overall parameter list

In edit mode, if no key is pressed for **two minutes**, the timer goes back on the display/operating mode **without saving changes**.

Importance of the lamps



Light	Function
	Green LED lights up: pump is in the pause state
	Yellow LED lights up: pump is in working condition
	Red LED flashing: timer is in alarm state
	Green and yellow LEDs flash: timer is in edit mode
	Green, yellow and red LEDs flash: pump is stopped



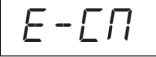
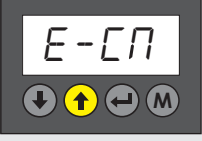

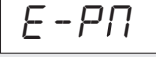
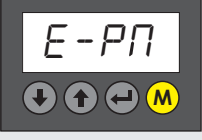






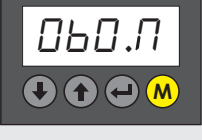




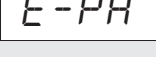










Parameter overview of the editing mode



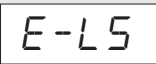
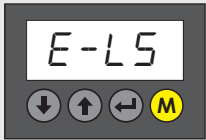

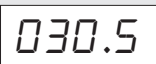
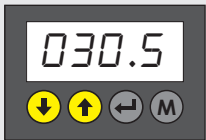


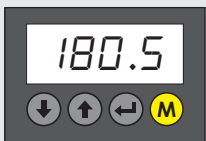

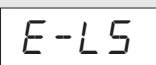
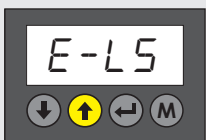

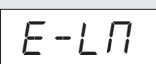
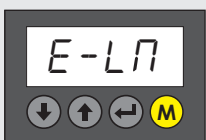

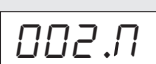
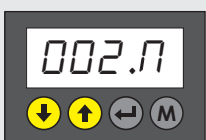

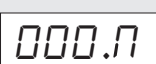
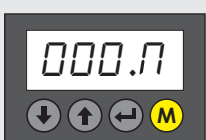

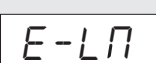
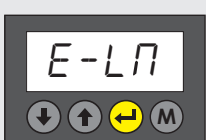

<i>E-CP</i>	Menu version	In basic mode by default
<i>E-FU</i>	Function mode	FU.IL / FU.IC / FU.PL / FU.PC
<i>E-PP</i>	Pause time in minutes	Should be set to 30 n (n = minutes)
<i>E-PH</i>	Pause time in hours	Should be set to 0
<i>E-LP</i>	Working time in minutes	Should be set to 0
<i>E-LS</i>	Working time in seconds	Should be set to XX s (s = seconds)
<i>E-CS</i>	Set the cycle range	(unlock by E-FU → FU.IC or FU.PC)
<i>E-CL</i>	Number of strokes/cycles	(unlock by E-FU → FU.IC or FU.PC)
<i>E-CL</i>	Monitoring time for clock until alarm (unlock by E-FU → FU.IC or FU.PC)	
<i>E-IP</i>	Pause impulses	
<i>E-RE</i>	Reset	
<i>E-PL</i>	Pre-lubrication	
<i>E-RC</i>	Alarm Expiry	
<i>E-RO</i>	Alarm Overpressure	
<i>E-RL</i>	Alarm Empty message	
<i>E-RH</i>	Alarm Hub	
<i>E-RH</i>	Alarm Temperature	
<i>E-RU</i>	Alarm Low Voltage	
<i>E-RS</i>	Alarm Drive	

ATTENTION:
 Break time: minutes and hours are **added**
 Working time: minutes and seconds are **added**

ATTENTION:
 Various parameters are activated via **function mode**

Set pause times and running times of the pump

Home screen	Action		
1.1 	 Press for 3 sec.	=	 Edit mode starts
1.2 	 Press briefly until	=	
1.3 	 Press briefly	=	 Press M to change pauses to minutes 2 min. is preset
1.4 	  Use	=	 Use arrows to set value Setting the breaks in minutes (here 60 min.)
1.5 	 Press briefly	=	 Press M to confirm value
1.6 	 Press briefly until	=	
1.7 	 Press briefly	=	 Press M to change pauses to hours
1.8 	  Use	=	 Use arrows to set value Setting the pauses in hours - Caution! Will be added at min.
1.9 	 Press briefly	=	 Press M to confirm value

	Home screen	Action		
1.10		 Press briefly until	=	
1.11		 Press briefly	=	 Press M to change runtimes to seconds 30 sec. is preset
1.12		 Use	=	 Use arrows to set value Setting the run time in seconds (here 180 sec.)
1.13		 Press briefly	=	 Press M to confirm value
1.14		 Press briefly until	=	
1.15		 Press briefly	=	 Press M to change run times to seconds
1.16		 Use	=	 Use arrows to set value Setting the runtime in minutes - Caution! Will be added at sec.
1.17		 Press briefly	=	 Press M to confirm value
1.18		 Press for 5 sec.	=	Press for 5 sec. to save all changes → Edit mode ends

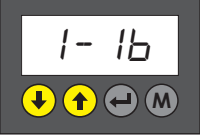

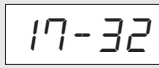
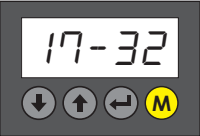


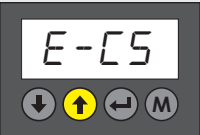

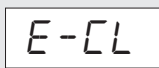





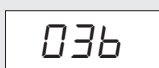


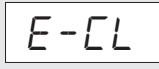


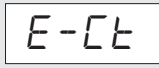



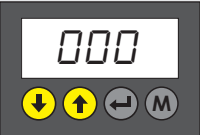

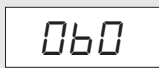
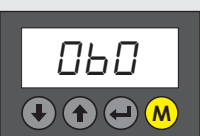

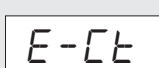

Cycle switch step 1



Home screen	Action		
2.1	 Press for 3 sec.	=	 Edit mode starts
2.2	 Press briefly until	=	 Press M to change function mode
2.3	 Press briefly	=	 Pause runtime is standard (PL)
2.4	 Use	=	 Use arrows to set value Change to pause counter (PC)
2.5	 Press briefly	=	 Press M to confirm value
2.6	 Press briefly until	=	
2.7	 Press briefly	=	Pause times in minutes (e.g. 60) and hours (e.g. 0) set as in steps 1.4 to 1.11
2.8	 Press briefly until	=	
2.9	 Press briefly	=	 Press M to change cycle range

Home screen

Action

2.10		 Use	= 	Use arrows to select adjustment range Range selection 1-16 / 17-32 / 33-48 ←
2.11		 Press briefly	= 	Press M to confirm value
2.12		 Press briefly until	= 	
2.13		 Press briefly	= 	Press M to change number of strokes
2.14		 Use	= 	Use arrows to set desired cycle value Adjusting the strokes (cycles). These are displayed with the previously selected adjustment range at start (z. B. 1/17/33) Change 60 to e.g. 36 → 36 is the number of cycles
2.15		 Press briefly	= 	Press M to confirm value
2.16		 Press briefly until	= 	
2.17		 Press briefly	= 	Press M to change monitoring time for cycle until alarm
2.18		 Use	= 	Use arrows to set value in seconds Monitoring time setting (e.g. value 60 = 60s) Caution! Always adjust the monitoring period in relation to the main line length. It is situation dependent!
2.19		 Press briefly	= 	Press M to confirm value  Press for 5 sec. to save all changes → Edit mode ends

Cycle switch step 2






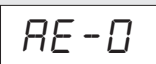



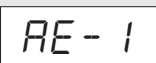
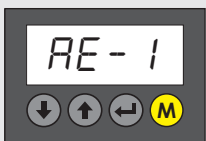


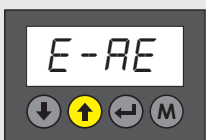


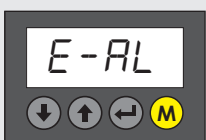

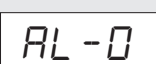
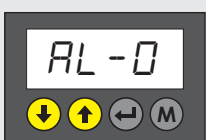


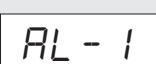
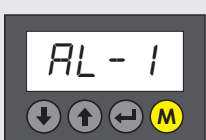

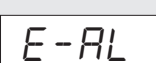
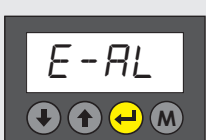



Home screen	Action		
2.20 	 Press for 3 sec.	=	 Edit mode starts
2.21 	 Press briefly	=	 Press M to change menu version Timer is in basic mode by default
2.22 	 Use	=	 Use arrows to set value Change to pause counter
2.23 	 Press briefly	=	 Press M to confirm value
2.24 	 Press briefly until	=	
2.25 	 Press briefly	=	 Press M to change the alarm sequence
2.26 	 Use	=	 Use arrows to set value 0 = off → 1 = on
2.27 	 Press briefly	=	 Press M to confirm value
2.28 	 Press for 5 sec.	=	Press for 5 sec. to save all changes → Edit mode ends

Reset to default

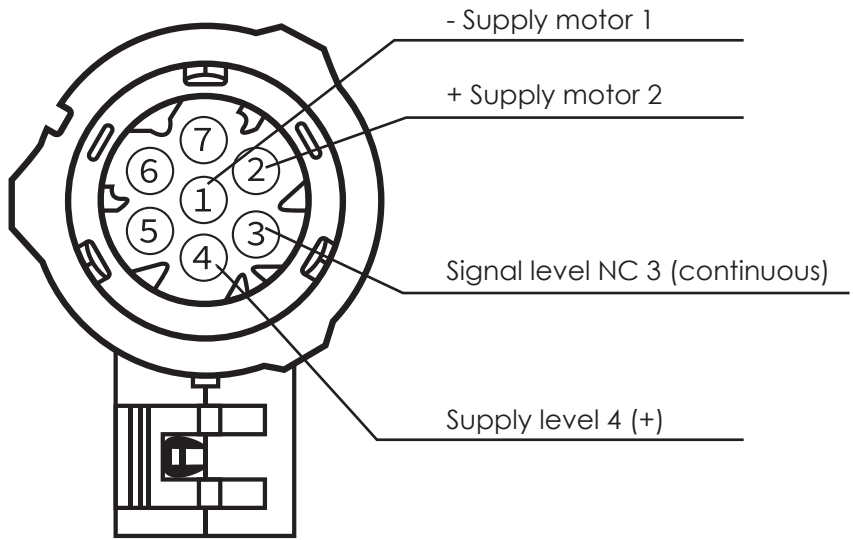


Home screen	Action		
3.1	 Press for 3 sec.	=	 Edit mode starts
3.2	 Press briefly until	=	 Press M to change function mode Can also appear FU.PC/FU.IC/FU.IL
3.3	 Press briefly	=	 Use arrows to set value Change to runtime pause
3.4	 Use	=	 Press M to confirm value
3.5	 Press briefly	=	 Press M to change menu version Another value can also appear here
3.6	 Press briefly until	=	 Use arrows to set value Change to full menu version
3.7	 Press briefly	=	 Press M to confirm value
3.8	 Use	=	 Press M to confirm value
3.9	 Press briefly	=	

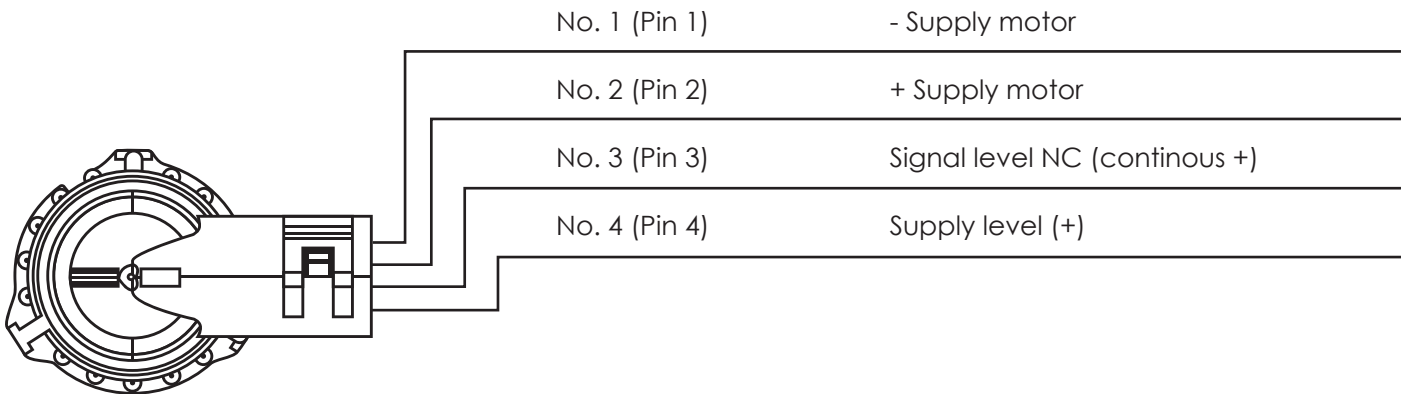
Home screen	Action		
3.10 	 Press briefly until	=	
3.11 	 Press briefly	=	 Press M to change the intermediate lubrication button
3.12 	  Use	=	 Use arrows to set value 0 = off → 1 = on
3.13 	 Press briefly	=	 Press M to confirm value
3.14 	 Press briefly until	=	
3.15 	 Press briefly	=	 Press M to change the intermediate lubrication button
3.16 	  Use	=	 Use arrows to set value 0 = off → 1 = on
3.17 	 Press briefly	=	 Press M to confirm value
3.18 	 Press for 5 sec.	=	Press for 5 sec. to save all changes → Edit mode ends



Pump connection without timer – **BEKA F1**



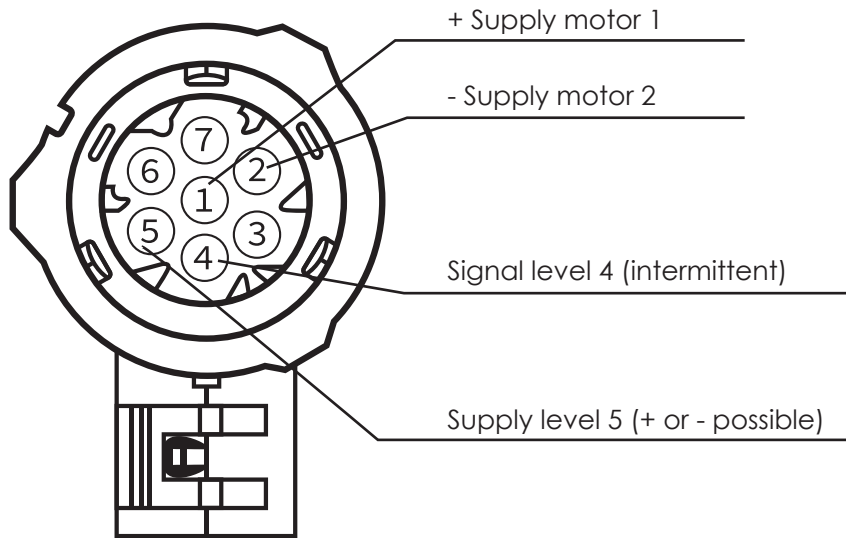
No. ... = cable number for single-color cables (pin position TYCO connector)



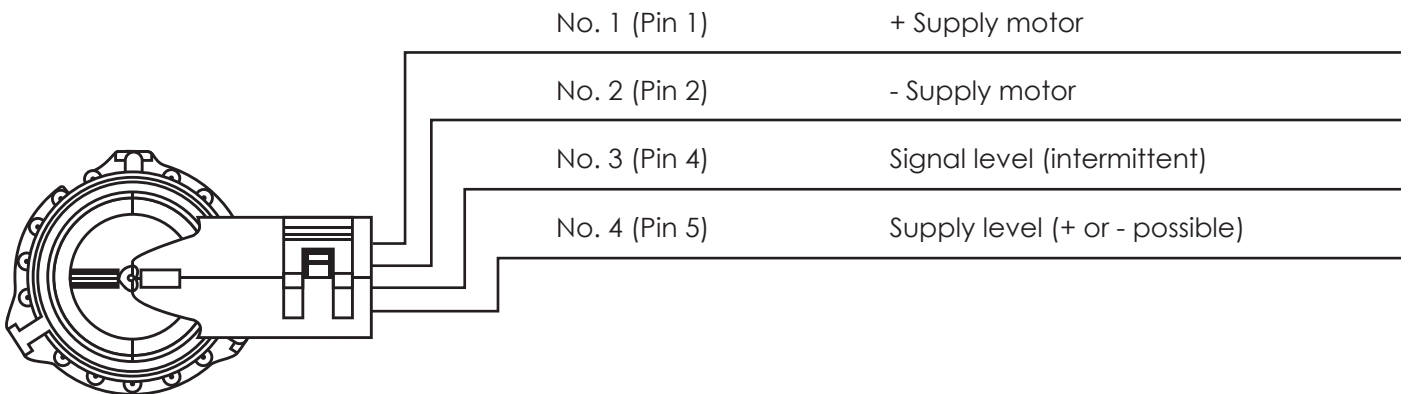
Electrical connection



Pump connection without timer – ILC



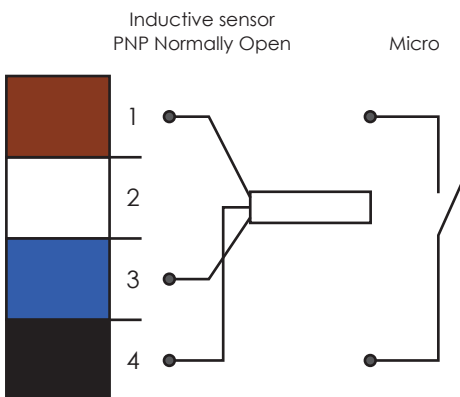
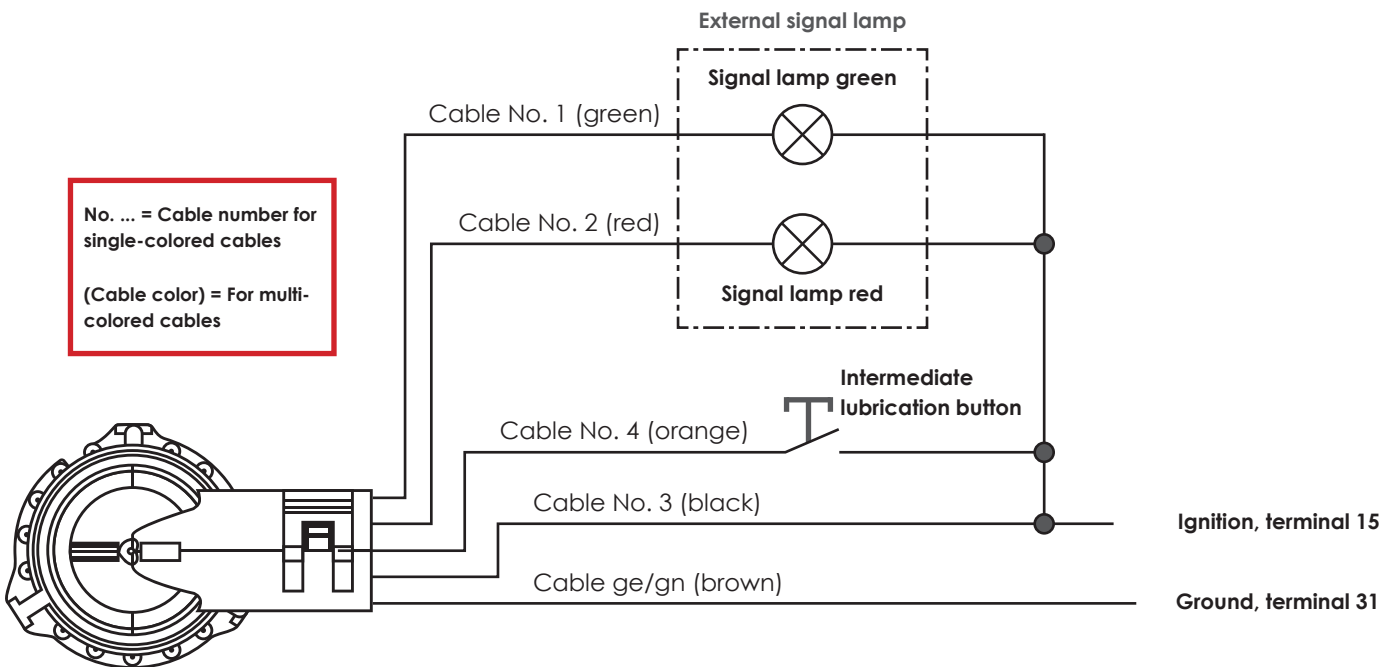
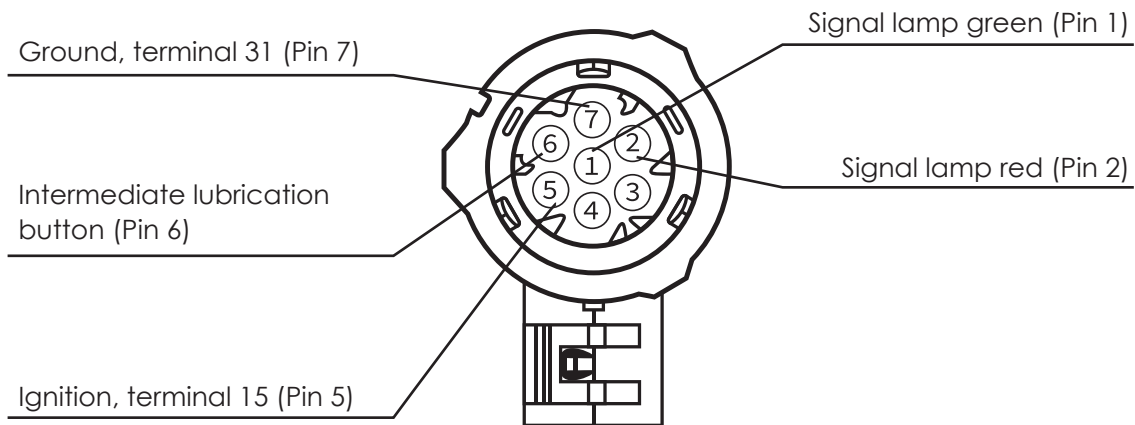
No. ... = cable number for single-color cables (pin position TYCO connector)



Electrical connection



Pump connection with timer – BEKA / ILC



To connect a control unit placed on the progressive distributor or on the pump outlet refer to the diagramm provided!

Pin 1 = brown = +
Pin 3 = blue = -
Pin 4 = black = signal

