PRODUCTION SYSTEMS

OEE COUNTER

Complex production processes are presented using easily understood KPIs

- Measures and presents change-over time, downtime and no. of units produced
- Complete stand-alone system – no connection to ERP or MES required
- Smart, ready-to-use functions – fast, simple start-up
- Machine efficiency status in real time

New!

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OEE COUNTER

Binar's new OEE Counter measures and presents machine efficiency using easily understood KPIs, Key Performance Indicators. Bottlenecks are identified automatically, ensuring action is directed to where it will be most effective.

The display becomes the machine's instrument panel, allowing process efficiency to be monitored in real time. The KPIs then form the basis for day-to-day control decisions and continous improvements.

Binar's OEE Counter is a complete solution that is simple to install, making start-up fast and simple. It can be used with both new and existing machines.

Apart from the OEE, Overall Equipment Effectiveness value (A = Availability, P = Performance, Q = Quality), the OEE counter can also display the following KPIs:

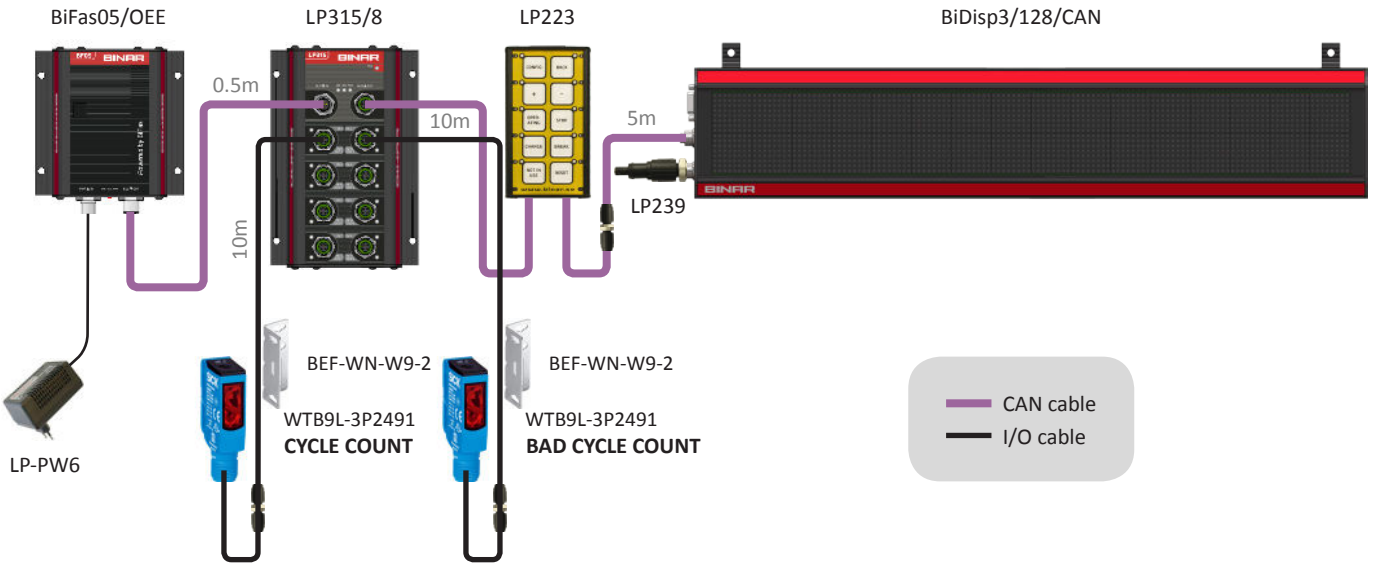
- Cycles per minute
- Average cycle time
- Shortest cycle time
- Remaining no. of units to be produced
- No. of discarded units
- Total Downtime
- Total Change-over Time
- Total Break Time

More information?
Binar also offers solutions that include downtime follow-up and visualisation for extensive processes.

TECHNICAL DATA

	No.	Part No.	Name
Componenets included (basic package) Part No. 54447	1	54405	BiDisp3/128/CAN
	1	54454	BiFas05/OEE
	1	51311	LP315/8 I/O Box
	1	51223	LP223 Ten button box
	2	50413	WTB9L-3P2491 Photoelectric Sensor
	2	50414	BEF-WN-W9-2 Bracket for sensor
	1	50326	LP-PW6 Power Supply
	1	50239	LP239 Termination
	1	50235	CAN Cable, 0.5m
	1	50232	CAN Cable, 5m
	2	50132	I/O Cable, 10m
Options		50231	CAN Cable, 2m
		50233	CAN Cable, 10m
		50130	I/O Cable, 2m
		50131	I/O Cable, 5m
		50243	T Connector
Readability distance	Up to 40m		
Font colour	Red, Green and Yellow		
CE	EN 61000-6-4 and EN 61000-6-2		
Power Supply	230V		
Temperature Range	0 - 50°C		
Humidity	0 - 95% non-condensing		
Mounting	Brackets included		

SYSTEM OVERVIEW



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DISPLAY MODES

Tip!
You can click the + or - button at any time to select the display mode manually.

OPERATING

1 2

E.g.
1: No. of produced parts OK
2: Total parts produced

STOP

E.g.
1: Current downtime
2: Total downtime

CHANGE

E.g.
1: Current change-over time
2: Total change-over time

BREAK

E.g.
1: Current break time
2: Total break time

OEE

E.g.
1: Q, Quality
2: OEE

TOGGLE

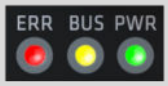
E.g.
1: Time before target is reached
2: No. of parts remaining

FUNCTION

Save data?
Binar can supply software that will allow data to be collected and saved in MS Excel. Contact Binar for further details.

STATUS INDICATION

The three LEDs show the unit status.



PWR = Power supply OK
BUS = Bus OK
ERR = Internal error/ communication error

LP315/8 I/O Box

1	IN	CYCLE COUNT	Counts the no. of cycles
	OUT	---	---
2	IN	BAD CYCLE COUNT	Counts the no. of non-approved cycles
	OUT	---	---
3	IN	OPERATING	Activate OPERATING
	OUT	OPERATING	Producing
4	IN	STOP	Activate STOP
	OUT	STOP	Stop
5	IN	CHANGE OVER	Activate CHANGE OVER
	OUT	CHANGE OVER	Change-over
6	IN	NOT IN USE	Activate NOT IN USE
	OUT	NOT IN USE	Machine not in use
7	IN	BREAK	Activate BREAK
	OUT	BREAK	Break
8	IN	START/RESET	Start new job/reset all counters
	OUT	TARGET REACHED	Parts target reached

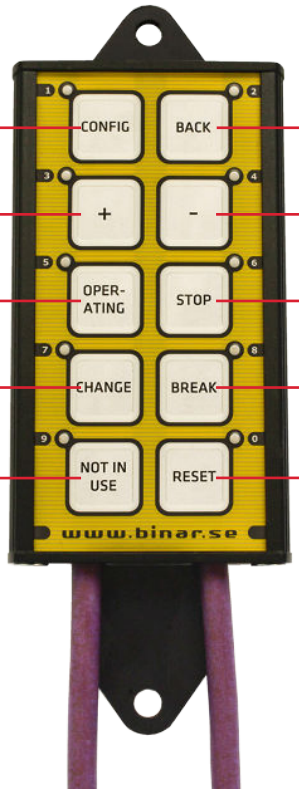
CONFIGURATION
Hold in for 3s to start configuration. Click to choose or confirm.

UP
Increase/scroll up.

OPERATING
Activate OPERATING to start measuring. (OPERATING/STOP is now automatic.)

CHANGE
Activate CHANGE OVER.

NOT IN USE
Activate NOT IN USE.



BACK
Cancel and return to submenu.

DOWN
Decrease/scroll down.

STOP
Activate STOP. (Automatically activated if CYCLE COUNT fails.)

BREAK
Activate BREAK.

RESET
Start a new job and reset.

Getting started

1. Carry out configuration, hold in CONFIG
2. Click RESET
3. Click CHANGE and begin change over
4. Click OPERATING to start
5. If AUTO IDEAL CYCLE TIME is activated, measurement of the ideal cycle time is activated after NO. OF CYCLES. Automatic stop is overridden under NO. OF CYCLES
6. CYCLE COUNT is registered at IN 1 and counts the no. of machine cycles
7. If CYCLE COUNT fails, the system switches automatically to STOP
8. When CYCLE COUNT is resumed, the system switches automatically to OPERATING

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KEY PERFORMANCE INDICATORS

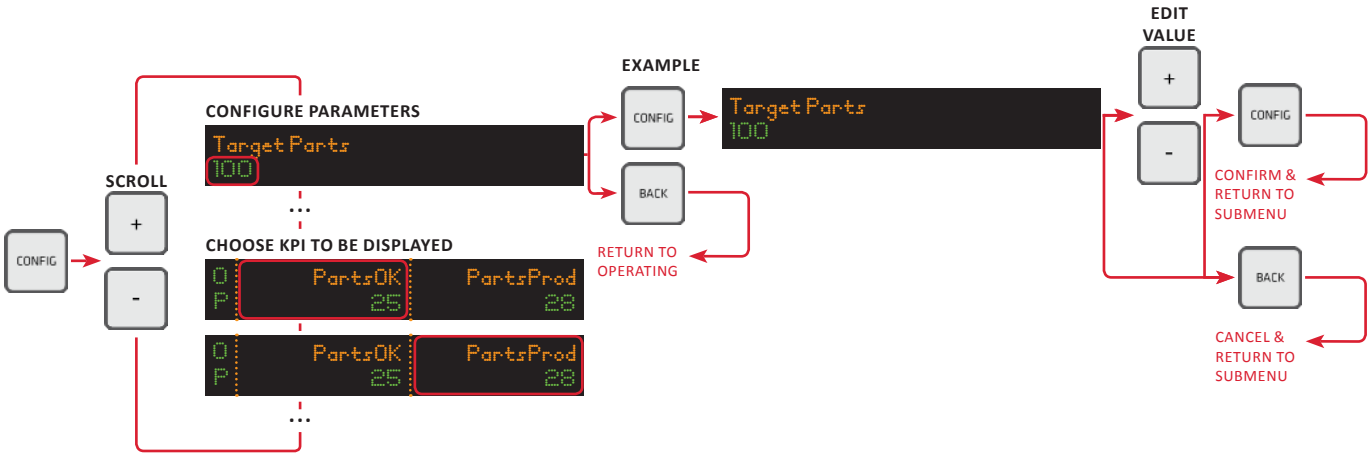
1	**CycleCount**	Cycle Counter
2	**PartsProd**	Parts Produced
3	**PartsOK**	Parts Produced OK
4	**CyclesNOK**	Cycles Not OK
5	**PartsNOK**	Parts Produced Not OK
6	**TargParts**	Target No Of Parts To Be Produced
7	**PartToTarg**	No Of Parts To Target
8	**Backlog**	Backlog
9	**TargComp**	Target Completion
10	**TimeToTarg**	Time To Target
11	**IdealCycTi**	Ideal Cycle Time
12	**AutIdCycTi**	Automatic Ideal Cycle Time
13	**Parts/Cyc**	Parts Per Cycle
14	**ShoCycTime**	Shortest Cycle Time
15	**LatCycTime**	Latest Cycle Time
16	**MedCycTime**	Medium Cycle Time
17	**Cycles/Min**	Cycles per minute
18	**Cycles/Sec**	Cycles per second
19	**TotPlaProTi**	Total Planned Production Time
20	**ActOpTime**	Actual Operating Time
21	**TotOpTime**	Total Operating Time
22	**ActDownTime**	Actual Down Time
23	**TotDownTime**	Total Downtime
24	**TotDownTiLo**	Total Downtime Loss
25	**ActChaTime**	Actual Change-over Time
26	**TotChaTime**	Total Change-over Time
27	**ChaTimeRat**	Change Time Ratio
28	**ActBreakTi**	Actual Break Time
29	**TotBreakTi**	Total Break Time
30	**AVAI**	Availability
31	**PREF**	Performance
32	**Q**	Quality
33	**QL**	Quality Loss
34	**OE**	AVAI x PERF
35	**OEE**	AVAI x PERF x Q
36	**SetParts**	Set Parts

What to display?

With a simple configuration you can choose the KPIs you wish to display in each mode.

CONFIGURATION

TARGET PARTS	*n*	No. of units to be produced, where *n* = 1-32000
PARTS/CYCLE	*n*	No. of units produced per cycle, where *n* = 1-100
PARTS NOT OK/CYCLE	*n*	No. of discarded units produced per cycle, where *n* = 1-100
AUTO IDEAL CYCLE TIME	*n*	OFF *n* = 0 ON *n* = 1
NO. OF CYCLES	*n*	No. of cycles, where *n* = 1-100
MAN IDEAL CYCLE MIN	*n*	Manual Ideal Cycle Time in minutes, where *n* = 0-32000
MAN IDEAL CYCLE SEC	*n*	Manual Ideal Cycle Time in seconds, where *n* = 0-59
TOGGLE DISPLAY ON	*n*	OFF *n* = 0 ON *n* = 1
TOGGLE TIME	*n*	Display interval for TOGGLE display mode in seconds, where *n* = 1-60



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