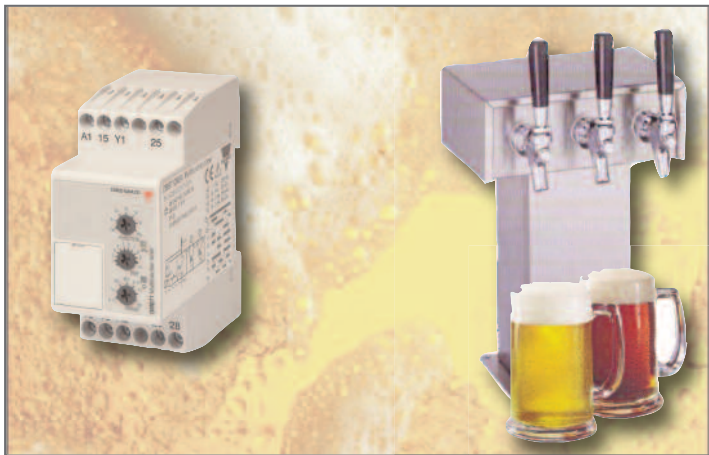


CG APPLICATIONS

CARLO GAVAZZI



Application Note : April 13th 2007

Market involved : Food&Beverage

Product : DMB71 multifunction timer

Customer : ---

Subject : Alternating pumps in beer cooling system

CUSTOMER ISSUE :

A cool mug beer is the first wish of people when they get into a pub: the satisfaction of this simply expectation means happier customers.

No long interruptions of the cooling process are therefore allowed.

For such reason, it is usual to have at least two pumps to alternately drive the cooling fluid.

At the same time, it is required to protect separately the pumps to ensure a partial cooling cycle even if one pump gets broken or the relevant magnetothermal switch releases in case of overloads.

OUR SOLUTION:

Using DMB71 timer with symmetrical recycler function, the activation in turn of the pumps (typically 24 or 48 hours) can be easily carried out.

Thanks to the double changeover output contacts (DPDT), the pumps can be therefore protected by two independent circuit breakers.

Moreover, an extremely wide time range allows to set any cooling cycle length.

ACHIEVED BENEFITS:

- Beer is always served at the right cool temperature.
- Equal split of the wear and tear between the two pumps.
- Each pump is protected by its own circuit breaker, so the probability to have the whole cooling system stopped is reduced to a minimum value.
- Very small housing to be put in existing full electrical panel or save space in new ones.

