Command and signalling devices

"N" program

Area of application

Series N was originally developed for the specific requirements of food industry mechanical engineering. The command and signalling devices of the machines for this branch of industry must comply with strict hygiene requirements and be easy to clean.

Series N command and signalling devices meet the requirements of Protection class IP69K. This means that even when cleaned on a regular basis using high-pressure cleaners they have an outstanding long service life. They were designed on the basis of the general design concepts for hygienic construction of food processing machinery (EN 1762-2). This means, for example, that the geometry of the devices has no sharp edges. Type examination carried out by the Meat Trade Association confirmed that the design of the N programme was hygiene-appropriate.

In addition, the devices are clean room-approved and also due to their resistance to spray water, they are deployed in outdoor-applications, e.g on municipal vehicles and in car washes. Apart from this, they are tried and tested in extreme applications in food processing, e.g. fish filleting and packaging lines that are installed directly on trawlers.

Design and way of functioning

The N series is of modular structure too which means that machine tool builders always have available a wide selection of different command and signalling devices. The device heads each have one mounting flange that provides effective sealing in conjunction with a labyrinth seal. The EF contact system (see page 62) is used in exactly the same way as with the series.

The N range is characterised by the short actuating stroke of the command devices and the high protection class even behind the front plate. This is a significant benefit in butchers' machines, for example, since condensation can form inside the machines.

The special features of the N range include main switches for up to 63 A. They allow design engineers to design the entire control unit of a (food) machine using just one range of products.



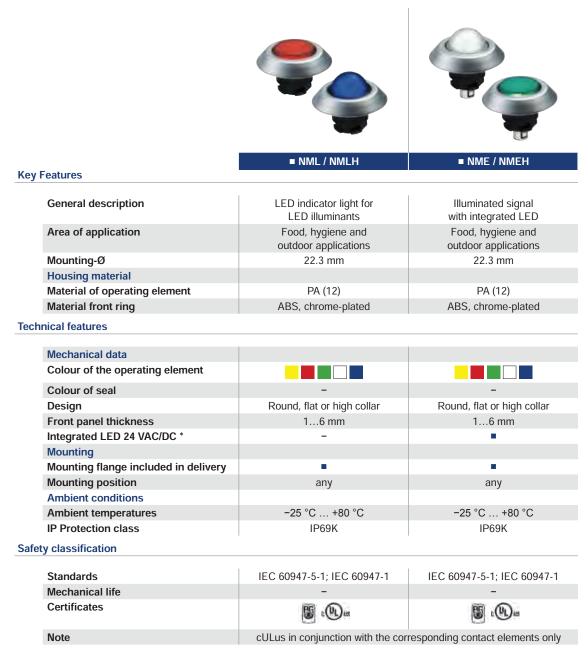
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12	Mounting flange ELM	63
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Command and signalling devices - N programme

Illuminated signal



^{*} A voltage sensor, e.g. an ELE is also needed for driving. You can find the voltage sensors on page 58

Command and signalling devices – N programme Illuminated signal

Туре	Description		Α	В	С	Type designation
Illuminated signal	Without integrated illuminant	Flat collar	9	22.3	44.5	NML ①
mummateu signai		High collar	17.4	22.3	44.5	NMLH ①
LED indicator light	With integrated illuminant	Flat collar	9	22.3	44.5	NMEF ①
LED indicator light		High collar	17.4	22.3	44.5	NME ①

① **Abbreviations of colours:** BK GB RD GN WH BL GR You append the abbreviations of the colours to the type designation. For details of possible colour combinations, refer to the technical data on the previous page.

All dimensions in mm.

Key

A Height Height of command device in front of the front panel
B Mounting-Ø Installation diameter for the command device head

C Key Ø Width of command device head

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