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RokLUME 280N SMART: Intelligent work lamp system revolutionises work lighting

- Individual light colour settings in amber or green ensure better visibility
- Easy installation and commissioning thanks to Powerline Communication (PLC)
- Work lamp is available in six different illumination variants

The international automotive supplier FORVIA HELLA is launching a new work lamp for vehicles in mining, construction and forestry: the RokLUME 280N SMART allows machine operators to customise the work lighting to suit their individual needs and lighting conditions. The lighting system is controlled via a gateway. Data is transmitted via Powerline Communication (PLC), which ensures reliable data transmission.

"With the RokLUME 280N SMART, we are revolutionising work lighting," says Stefan Maierhofer, Head of Product Management Worklights at FORVIA HELLA. "Never before has it been possible to adjust work lighting more specifically and adapt it to different working conditions and needs." For example, the driver can choose between two different light colours. The field test with customers such as vehicle manufacturers and mine operators showed that an amber or green light colour improves visibility in fog, rain, snow and dust. "The colour change can increase visibility in many different situations and enables fatigue-free working. This reduces downtime and increases safety, as the working environment is easier to recognise," says Maierhofer.

In addition to the colour, the colour temperature of the RokLUME 280N SMART can also be continuously adjusted from warm white to cool white. This reduces self-glare and eye fatigue. The light can also be dimmed depending on the current lighting conditions. If the work lamps are used as daytime running lights, this function reduces power consumption and therefore CO₂ emissions at the same time.

If the RokLUME 280N SMART is retrofitted, the functions are controlled via a control panel. The memory function in the control panel ensures greater productivity at work. It can be used to save up to three individual light settings for the work lamps. At the touch of a button, the machine operator can select their personalised light settings. Operation is intuitive and the buttons are dimensioned so that they can be easily operated even when wearing gloves. For original equipment manufacturers, operation via the Human Machine

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Interface (HMI) can be integrated. The gateway uses the CAN bus J1939 protocol to communicate with the customer's HMI.

Another advantage of the RokLUME 280N SMART: the work lamp communicates via Powerline Communication (PLC). This means that no additional wiring harnesses are required for control. The vehicle's existing harness architecture can simply be used for commissioning and installation. Wired communication allows long distances to be bridged efficiently and even metal-protected areas can be reached with consistent transmission quality. The central control unit "gateway" controls each work lamp via PLC and can thus set the work lighting to suit the ambient conditions. In contrast to wireless technologies such as Bluetooth, communication with the work lamp is also robust against interference signals thanks to PLC.

The RokLUME 280N SMART is available in six different illumination variants: with long-range, close-range, pencil beam, diffuse flood, tunnel flood or **ZEROGLARE** illumination. The work lamp is also equipped with a lifetime warning. This means that the system warns in good time before the service life of the work lamp expires, thus preventing unplanned downtime. Anti-theft protection is also integrated. If this feature is activated, the work lamp will not work on other machines.

More information at: www.hella.com

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ABOUT FORVIA HELLA

FORVIA HELLA is a listed, internationally positioned automotive supplier. As a company of the FORVIA Group, FORVIA HELLA stands for high-performance lighting technology and vehicle electronics and, with the Lifecycle Solutions business group, also covers a broad service and product portfolio for the spare parts and workshop business as well as for manufacturers of special vehicles. With around 37,500 employees at over 125 locations, the company is active worldwide and generated adjusted sales of €8.1 billion in the fiscal year 2023. www.hella.com

ABOUT FORVIA

FORVIA, the seventh largest supplier of automotive technology worldwide, combines the complementary technological and industrial strengths of Faurecia and HELLA. With around 260 industrial sites and 78 R&D centres, over 150,000 employees, including more than 15,000 R&D engineers, in over 40 countries, FORVIA offers a unique and comprehensive approach to the automotive challenges of today and tomorrow. FORVIA consists of six business groups and a strong portfolio with over 13,000 patents. FORVIA is focused on becoming the preferred innovation and integration partner for automotive manufacturers worldwide. FORVIA aims to be a change maker committed to foreseeing and making the mobility transformation happen. www.forvia.com