

GEFRAN INTRODUCES THE GRP-H SERIES: THE FIRST SOLID STATE RELAY WITH IO-LINK OUTPUT

Provaglio d'Iseo, 15 December 2021 **Gefran** – the Italian multinational group specialised in the design and production of sensors, industrial process control systems, electric drives and automation components – introduces GRP-H, the first range of **single-phase solid-state relays** with **IO-Link** digital communication protocol on the market. The **GRP-H** series, an evolution of the GRS-H series which belongs to the innovative GR platform dedicated to SSRs, extends the functions for the control of electrical resistance in industrial heating and integrates even more advanced diagnostics for the early detection of any partial load break.

“The **GRP-Hs** are the first solid state relays with an architecture based on the open IO-Link standard for sensors and actuators. Furthermore, like the GRS-H, they are characterised by a robust, ultra-compact design and modularity, ensured by current range from 15A to 120A” comments **Paolo Buzzi, Gefran's Controllers & Power Controllers Marketing Manager**.

In detail, the IO-Link protocol allows the integration of GRP-H relays in automation architectures and the exchange of multiple data, such as **operating hours** or **current** and **temperature peaks**, in favour of predictive maintenance. It also allows for simplified and foolproof wiring.

From a **diagnostic** point of view, the range stands out for its extreme accuracy in detecting partial breaking of the load, which guarantees the partial load break detection up to 1/8 of the total load. This is an essential requirement in certain fields of application such as packaging, where temperature is a fundamental parameter. The **GRP-H** SSRs also include a number of auxiliary control features, from the simplest linear resistive loads to non-linear resistive loads such as **infrared (IR) lamps**, with advanced firing modes: Zero Crossing, Burst Firing, Half Single Cycle and Phase angle. A further distinctive element of the series is the Soft Start function, useful for heating elements such as infrared lamps, which are particularly sensitive during the preheating phases.

The new range is completed by the **NFC App** (Near Field Communication), available for **Android** and **iOS** devices, for a quick set up of the main parameters even in the field. Service calls are thus

GEFRAN SPA

Via Sebina, 74
25050 Provaglio d'Iseo (BS)
, Italy

Tel. +39 030 9888.1
Fax +39 030 9839063
<http://www.gefran.com>
info@gefran.com

Cap.€ 14,400,000 fully paid-
up Reg. Registry of Brescia
No. 03032420170
Economic and Administrative
Index No. 313074 BS
Code BS 016227

Tax Code 03032420170
VAT number (TVA-VAT-
MWS)
IT03032420170
Registration No.
EEE: IT1808000010658

simplified: the App allows to read the **SSR's configuration** and sends the file to the service which is able to analyse it and possibly modify it, remotely. The new version is then sent directly to the App for download on the **relay**, making connection cables and configuration software on a PC superfluous. Also, among the guaranteed advantages is the ability to quickly duplicate the same configuration on different **GRP-Hs** without errors.

"The market entry of the GRP-H series represents an important step in our path towards the development of a scalable Solid State Relay platform with incremental performance" continues **Paolo Buzzi**. He then concludes: "This is a platform that will be further enriched in 2022 and that will allow us to be confirmed as a reference player in industrial automation thanks to a modular, complete in terms of architecture and data driven offer, by means of the IO-Link communication standard".

Gefran

Gefran is the Italian multinational group specialised in the design and production of sensors, industrial process control systems, electric drives and automation components. Competence, flexibility and process quality are the distinguishing factors of Gefran in the realization of tools and integrated systems for specific applications in different industrial fields, with a consolidated know-how in the fields of plastic, metal, paper, industrial lifting, heat treatment and lift. Technology, innovation and versatility represent the added value of the catalogue: electrical drives, sensors, automation platforms, regulators and power controllers able to increase the efficiency of production processes, also in terms of energy. The company now has over 900 employees, of which almost 500 in Italy (in the main offices of Provaglio di Iseo and Gerenzano) and consolidated collaborations with national and international research centers and universities. Gefran operates on the main international markets through 6 production subsidiaries in Brazil, China, Germany, India, Switzerland and the United States. In addition, there are sales subsidiaries in France, the United Kingdom, Belgium, Singapore and over 80 international distributors for global sales support.

Gefran is listed on the Milan Stock Exchange in the FTSE Italia STAR segment.

For further information:

Lbdi Communication

Silvia Vara – email: svara@lbdi.it

Federica Cosmo – email: fcosmo@lbdi.it

Ginevra Fossati - email: gfossati@lbdi.it

Tel. +39 02/4391006 – M. +39 3662694449

GEFRAN SPA

Via Sebina, 74
25050 Provaglio d'Iseo (BS)
, Italy

Tel. +39 030 9888.1
Fax +39 030 9839063
<http://www.gefran.com>
info@gefran.com

Cap.€ 14,400,000 fully paid-up
Reg. Registry of Brescia
No. 03032420170
Economic and Administrative
Index No. 313074 BS
Code BS 016227

Tax Code 03032420170
VAT number (TVA-VAT-MWS)
IT03032420170
Registration No.
EEE: IT1808000010658