

## Electromagnetically Actuated Shotbolt Lock Units

1

Product group

**G HU Z 032**

- According to DIN VDE 0580
- Almost linear magnetic force vs. stroke characteristic
- Solidly executed shotbolt
- Pull type (de-energized locked) and push type (de-energized unlocked)
- Built-in return spring
- Maintenance-free bearings with long service life
- Insulation materials of excitation winding correspond to thermal class F
- Electrical connection and protection class with duly executed installation:
  - Plug connection via receptacles according to DIN 46247  
Protection class according to DIN VDE 0470-1/  
DIN EN 60529 – IP 00
  - Plug connection via plug connector Z KC according to DIN EN 175 301-803  
Cable gland (2 x 180-degree rotatable)  
Protection class according to DIN VDE 0470-1/  
DIN EN 60529 – IP 40
- Fastening with central thread
- Please contact us for modifications and special designs
- Application examples (according to health and safety at work regulations and according to accident preventing regulations):  
Interlocking of protectors of machines of all sorts



Fig. 1: Type G HU Z 032 M30 A01

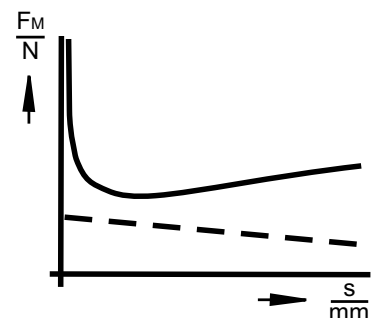


Fig. 2: Force vs. stroke characteristic



## Technical data

G HU Z 032		
Operating mode		S1 (100%)
Stroke s	(mm)	6
Rated work $A_N$	(Ncm)	2,85
Rated power $P_{20}$	(W)	7,2
Reference temperature $v_{11}$	(°C)	35
Operating frequency $S_h$	(1/h)	30000
Actuation time $t_1$	(ms)	70
Fall time $t_2$	(ms)	40
Armature weight $m_A$	(kg)	0,03
Solenoid weight $m_M$	(kg)	ca. 0,25
Maximum lateral load:		
Shotbolt	in normal position(N)	600
	in motion(N)	4

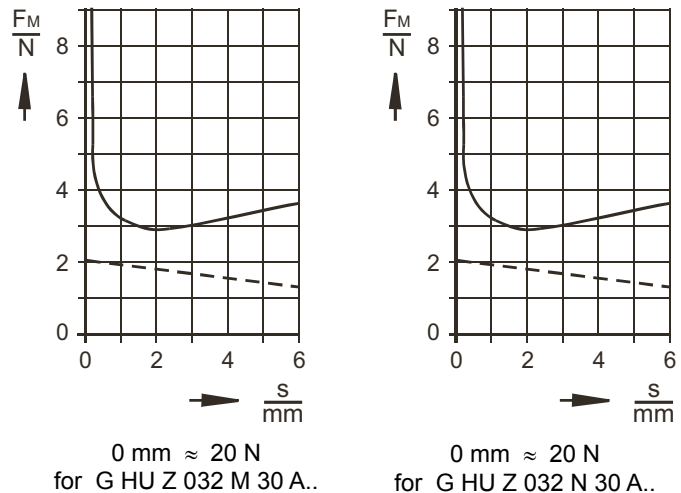


Fig. 3: Magnetic force vs. stroke characteristic and return spring

Rated voltage  $\approx 24$  V, the exciter coil can be adjusted to a rated voltage of  $\approx 250$  V maximum on request.

The magnetic force values indicated in the tables refer to 90 % of the rated voltage, ( $U_N = \approx 24$  V, for other voltages deviations of the magnetic force may occur) and to the normal operating temperature.

Due to natural dispersion, the force values and the force values of the spring may deviate by 10 % from the values indicated in the tables.

The normal operating temperature is based on:

- mounting on badly conductive base
- rated voltage  $\approx 24$  V
- operating mode S1 (100 %)
- reference temperature 35° C

The stroke movement effected by the electromagnetic force can be pulling or pushing depending on the design.

The reset in the stroke start position is effected by the built-in spring. Both operations, „de-energized locked“ and „de-energized unlocked“ are possible. However the operation „de-energized locked“ is preferable.

Reliable flexible fastening is guaranteed through the central thread.

Design with signal switch on request.

For connection via plug connector Z KC X or Z KC G, please take into consideration the max. continuous current of the plug.

This part list is a document for technically qualified personnel. The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively.

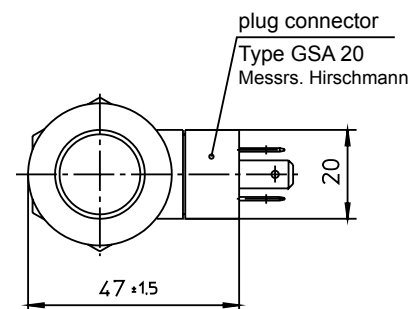
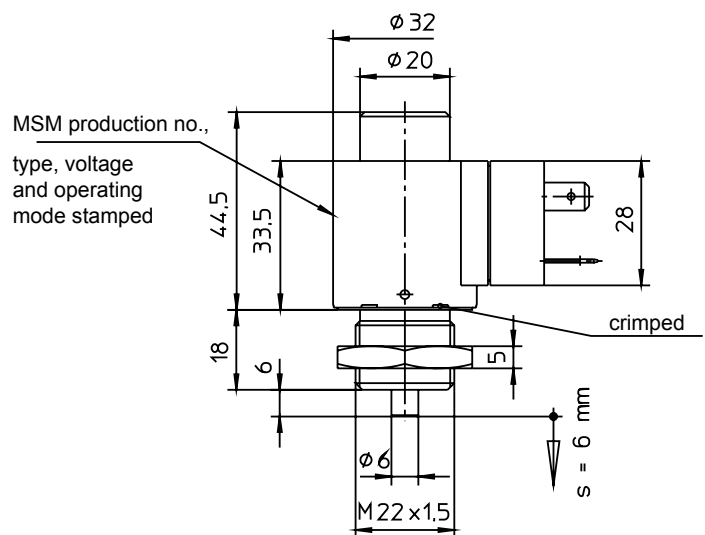
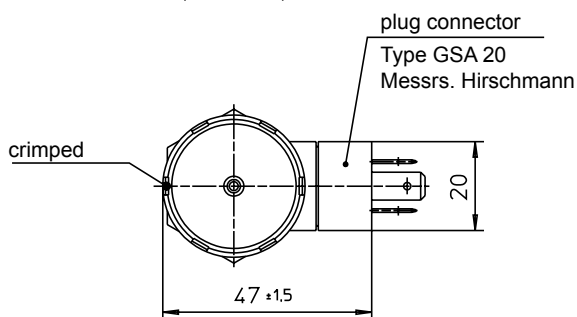
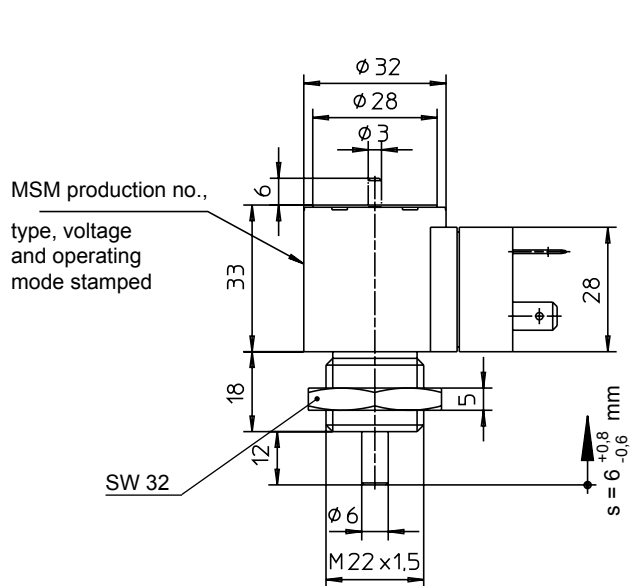
**Please make sure that the described devices are suitable for your application. Supplementary information concerning its duly assembly can be found also in -Technical Explanations, in the effective DIN VDE0580 as well as in the relevant specifications.**

**Information and remarks concerning European directives** can be taken from the correspondent information sheet which is available under *Produktinfo.Magnet-Schultz.com*.

### Note on the RoHS Directive

The devices presented in this document do not fall into the scope of RoHS Directive and to our knowledge they do not become part of products which fall into this scope. In case of surfaces zinc coating with yellow chromating and zinc iron with black chromating separate agreements are necessary for applications within the scope of RoHS.

# Dimensions table



**Fig. 4:** Type G HU Z 032 M30 A01  
pull type (de-energized locked)

**Fig. 5:** Type G HU Z 032 N30 A01  
push type (de-energized unlocked)




## Type code

	<b>G</b>	<b>HU</b>	<b>Z</b>	<b>032</b>	<b>M</b>	<b>30</b>	<b>A01</b>
Device group							
Series							
Modifications							
Size in the series							
Execution in the series							
Protection code							
Design number							

## Order Example

Type	G HU Z 032 M30 A01 (pull type)
Voltage	≡ 24 V DC
Operating mode	S1 (100 %)

## Special designs

Please do not hesitate to ask us for application-oriented problem solutions. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant -Technical Explanations.

If necessary, please request the support of our corresponding technical office.