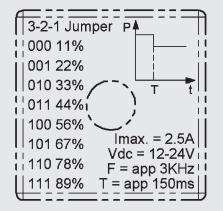
YDAO INTERNATIONAL



Power Reduction Plug for Solenoid Coils with DIN Connector

LRS

FUNCTION



- Reduced coil temperature due to lower energization
- Longer coil service life due to reduced load
- Energy and cost savings due to the energy requirement being reduced by up to 20 to 40 %
- Less radiated heat

FEATURES

• Compatible with all of the solenoid valves with a DC coil offered by HYDAC (except mini valves)

SPECIFICATIONS

Application:

Nominal voltage:	12 / 24 Volt DC
Maximum current:	2.5 Ampere (with no reduction)
Holding time at 100%:	150 – 175 ms
Switching frequency:	3.1 KHz at 24 V
On-off ratio:	8 fixed variations
Type:	EN 175301-803 Form A
	(Z4 Hirschmann connector), ISO 4400
Materials:	Housing: polyethylene, transparent
	Seals: NBR (standard)
Weight:	0.08 kg
LED display:	Yes
Protection against	No
reverse polarity / overvoltage:	
Seal:	With onion grommets or supplied sealing
	rings for cables with diameter 5-11mm
Pin connections:	Cable inlet
	OV port Jumper OO 2 OO 3
	VDC port

For solenoid coils with 12/24 V DC and

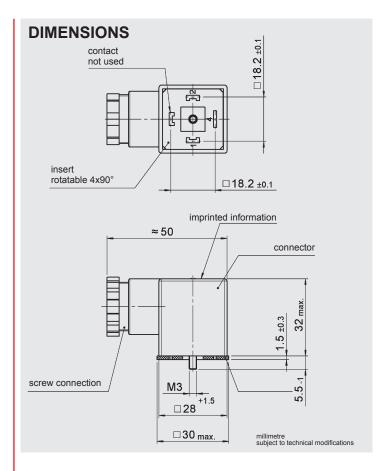
DIN connector

designed to reduce the power on solenoid coils in order to save electricity. It contains electronics which provide the full power only required when switching on the coil. By means of a PWM signal, the electronics then reduce the power

The power reduction plug LRS is

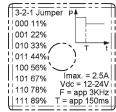
to the level needed to maintain the position. The PWM signal delivers an average current over a series of switchoff times.

The plug is advantageous particularly for battery-operated mobile machines, but its energy-saving potential may of course be exploited anywhere.



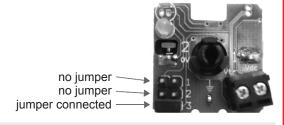
Setting the holding power:

First take the valve type from the table. The bit pattern of the jumper (jumper code) must then be transmitted to the LRS.

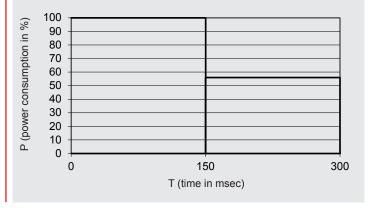


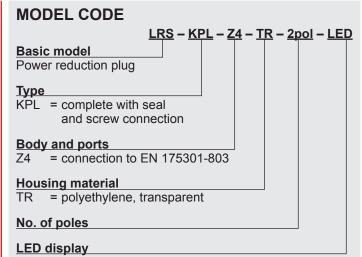
Example with power consumption of the coil (at room temperature)

Power consumption = current rating x nominal voltage Jumper code 100 corresponds to reducing the electrical holding power to 56% of the electrical power consumption. In the case of COIL 24DG-40-1836, around 19 Watt power consumption is reduced to 10.65 Watt holding power in this example.



PERFORMANCE





Standard models

Model code	Part No.
LRS KPL Z4 TR 2POL LED	3689354

Valve type

Jumper codes

(suggestions for the main valves)

(suggestions to	or the main vaive
Valve type	Jumper code
WK07L	100
WK08V	101
WK08W	010
WK08A	011
WK08C	011
WK08D	011
WK08R	011
WK08X	100
WK08Y	101
WK08Z	011
WK081V	100
WK081W	010
WK10A	100
WK10C	010
WK10D	100
WK10E	010
WK10F	011
WK10G	011
WK10H	100
WK10K	100
WK10L	100
WK10N	100
WK10P	010
WK10R	011
WK10S	010
WK10T	010
WK10V	100
WK10W	010
WK10X	101
WK10Y	010
WK10Z	011
WK10J	011
WKM08130C	011
WKM08130D	100
WKM08130L	101
WKM08140Y	011
WKM08140X	100

WKM08140EB	101
WKM10130C	010
WKM10130D	011
WS08C	011
WS08D	100
WS08V	011
WS08W	011
WS08Y	010
WS08Z	001
WS10W	010
WS10Z	010
WS12Y/R	101
WS12Z/R	010
WS16Y/R	010
WS16Z/R	010
WSEC08130	011
WSM08130C	011
WSM08130D	100
WSM12120V	001
WSM06020W	010
WSM12120W	001
WSM12120Y	101
WSM12120YR	100
WSM12120Z	010
WSM12120ZR	010
WSM06020V	001
WSM06020Y	010
WSM06020Z	001
WSM10120Y	101
WSM10120YR	101
WSM10120Z	010
WSM10120R	010
WSM10120W	011
WSM16520V	100
WSM16520W	011
WK08120V	100
WS08ZR	001

Jumper code

Note

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.

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