Linear Drive Accessories
Proximity Sensors

Type RS-.
Type ES-.

OSP
— ORIGA
— SYSTEM
— PLUS

For electrical sensing of the carrier position, e.g. at the end positions, proximity sensors may be fitted.

Position sensing is contactless and is based on magnets fitted as standard to the carrier. A yellow LED indicates operating status.

The universal proximity sensors are suitable for all HOERBIGER-ORIGA OSP-Actuators and aluminum profile rod type cylinders.

Piston, speed and switching distance affect signal duration and should be considered in conjunction with the minimum reaction time of ancillary control equpiment.

$$\text{Min. reaction time} = \frac{\text{Switching distance}}{\text{Piston speed}}$$

*) other versions on request
**) RS with connector (RS-S)

Characteristics to VDI 3292

Characteristics	Symbol	Unit	Description	
Electrical Characteristics			**Type RS**	**Type ES**
Operating voltage	U_B	V	10-240 AC/DC (NO) 10-150 AC/DC (NC) 10-70 AC/DC (NONC)**	10-30 DC
Connection			Two wire	Three wire
Switching function			Normally open (NO) closing Normally closed (NC) opening	PNP NPN closing
Max. permanent switching current	I_{Dmax}	mA	200	200
Max. switching capacity		VA (W)	10 VA	—
Residual voltage at I_{Lmax}		V	<3	<3
Max. current consumption		mA	—	<20
Status indicator			LED, yellow	
Typical switching time		ms	on: <2	on: <2
Switch-off delay		ms	—	ca. 25
Pole reversal			LED does not work	—
Pole reversal protection			—	Built in
Short circuit protection			—	Built in
Switchable capacity		µF	0.1 at 100 , 24 VDC	
Switching distance		mm	ca. 15	ca. 15
Hysteresis for OSP		mm	ca. 8	ca. 3
Mechanical Characteristics				
Housing			Makrolon, grey	
Insulation class			F to VDE 0580	
Connection *)			Cable, 5 m long 3-pole Connector M8, Cable length ca.100mm**	3-pole Connector M8, Cable length ca.100mm
Cable cross section (highly flexible)		mm²	2 x 0.14	3 x 0.14
Cable (highly flexible)*)			PVC	PUR, black
Wire colours			brown AC/DC+ blue or white signal output	Pin 1 = +,brown Pin 3 = 0V, blue Pin 4 = Signal black or white
Permissible minimum bending radius of cable		mm mm	20 70	
Switching point accuracy		mm	± 0.2	
Temperature range *)	ϑ_{min} ϑ_{max}	°C °C	-25 +80	other temperature ranges on request
Service life Switching cycles			3 x 10⁶ up to 6 x 10⁶	Theoretically unlimited
Electrical protection	IP		67 to DIN 40005	
Shock resistance		m/s²	100 (contact switches)	500
Weight (mass)		kg	0.12	

The right to introduce technical modifications is reserved

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107