Characteristics

Characteristics		Symbol	Unit	Description
Characteristics Electrical Characteristic	<u> </u>	Symbol	Uniil	Description
Operating voltage		V	10 240 AC/DC (NO)	Type RSType ES
Operating voltage	U _B	V	10-240 AC/DC (NO) 10-150 AC/DC (NC) 10-70 AC/DC (NO/NC)**	10-30 DC
Connection			Two wire	Three wire
Switching function			Normally open (NO) Normally closed (NC)	NPN (NO) PNP (NC)
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	_	approx.25
Pole reversal			LED without function	_
Pole reversal protection			_	builtin
Short circuit protection			_	builtin
Switchable capacity		μF	0.1 at 100 Ω, 24 VDC	
Switching distance		mm	approx.15	approx.15
Hysteresis for OSP		mm	approx.8	approx.3
Mechanical Characterist	ics	I	<u> </u>	L
Housing			Macrolon, grey	
Insulation class			F to VDE 0580	
Connection*) Type RS-K			Cable, 5 m long	
Type RS-S			3-pole Connector M8, Cable length ca. 100mm**	3-pole Connector M8, Cable length ca.100mm
Cable cross section (highly flexible)		mm²	2x0.14	3x0.14
Cable (highly flexible *)			PVC	PUR, black
Wire colors			brown AC/DC+ blue or white signal output	Pin 1 = +, brown Pin 3 = 0 V, blue Pin 4 = Signal black or white
Minimum permissible bending radius fixed		mm	≥20	
of cable moving		mm	≥70	
Switching point accuracy	mm	±0.2		
Temperature range *) 1)	$\vartheta_{\min} \ \vartheta_{\max}$	°C °C	-25 other temperature ranges +80 on request	
Service life, switching cycles	IIIeX		3 x 10 ⁶ up to 6 x 10 ⁶	theoretically unlimited
Electrical protection		IP	67 according to DIN EN 60529	
Shock resistance			m/s² (contact switches)	100 500

^{*)}RS with connector (RS-S)

Magnetic **Switches**



Type RS-. Type ES-.

For electrical sensing of the carrier position, e.g. at the end positions, magnetic switches may be fitted. The magnetic switches can as well be used as cut-out switches for a lot of intermediate positions.

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

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

In accordance to this, the contact travel must be included in the calculation.

Switching distance Min.reaction time = Piston speed







for the magnetic switch temperature range, please take into account the surface temperature and the self-heating properties of the linear drive