



Signal transmission system WLS



EN | Product information

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Areas of application

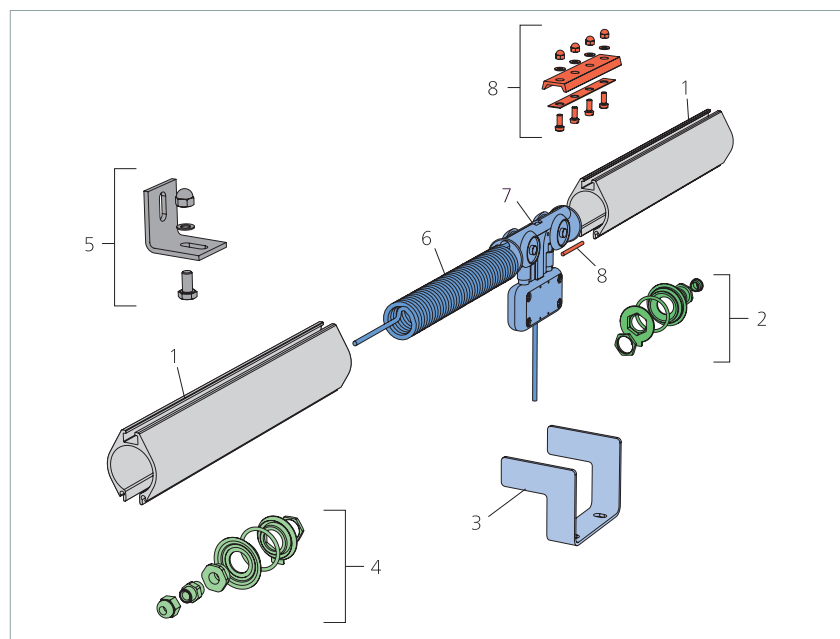


The WLS signal transmission system is used as a protective conduit for cables in doors and gates. When it comes to making danger areas safe, the system is especially suitable for safe transmission of signals between tactile sensors e.g. safety edges and the control module.

Examples:

- Vertical and horizontal gates
- Machine hoods and windows
- Conservatories
- Sun blinds
- Moulding and textile machines

System design



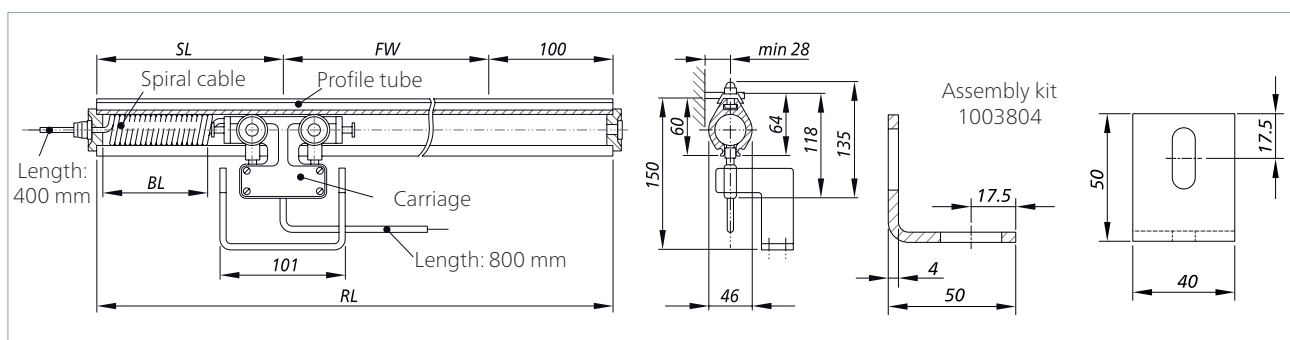
Pos.	Part No.	Designation	Comment
1	10038-06 ... -09	Profile tube WLS	aluminium anodised; 2, 3, 4 and 6 m
2	1003792	WLS-sealing cap	closed
3	1003771	Carrying fork for WLS	
4	1003791	WLS-sealing cap	PG7
6 + 7	75015-13 ... -24	Spiral cable with carriage	4x 0.14 mm ²
8	1003802	Tube connector for WLS	stainless steel

Accessories			
5	1003804	Fastening parts for WLS	incl. nuts and screws

Operation

The system consists of an aluminium profile tube and a specially designed, abrasion-resistant and extremely dimensionally stable spiral cable with carriage. When the carriage is put into motion the cable is stretched inside the profile tube and returns to its original position when the carriage goes back. The system components were designed to co-ordinate with each other and can be used in gates both indoors and outdoors. The WLS is suitable for gates in high-frequency operation.

Dimensions and part numbers



WLS complete	WLS-kit, no profile tube	Spiral cable with carriage	Max. runway	Profile tube length	Storage length	Block length
Part No.	Part No.	Part No.	FW [m]	RL [m]	SL [m]	BL [m]
7501482	7501501	7501513	1.5	2	0.3	0.12
7501483	7501502	7501514	1.6 ... 2.5	3	0.4	0.29
7501484	7501502	7501514	2.6 ... 3.5	4	0.4	0.29
7501485	7501503	7501515	3.6 ... 4.3	5 = 2+3	0.6	0.46
7501486	7501503	7501515	4.4 ... 5.3	6	0.6	0.46
7501487	7501504	7501516	5.4 ... 6.1	7 = 3+4	0.8	0.63
7501488	7501504	7501516	6.2 ... 7.1	8 = 4+4	0.8	0.63
7501489	7501505	7501517	7.2 ... 8.0	9 = 3+6	0.9	0.80
7501490	7501505	7501517	8.1 ... 9.0	10 = 4+6	0.9	0.80
7501491	7501506	7501518	9.1 ... 9.8	11 = 3+4+4	1.05	0.96
7501492	7501506	7501518	9.9 ... 10.8	12 = 6+6	1.05	0.96
7501493	7501506	7501518	10.9 ... 11.8	13 = 3+4+6	1.05	0.96
7501494	7501507	7501519	11.9 ... 12.6	14 = 2+6+6	1.25	1.13
7501495	7501507	7501519	12.7 ... 13.6	15 = 3+6+6	1.25	1.13
7501496	7501508	7501520	13.7 ... 15.3	17 = 2+3+6+6	1.60	1.48
7501497	7501509	7501521	15.4 ... 17.1	19 = 3+4+6+6	1.80	1.65
7501498	7501510	7501522	17.2 ... 19.0	21 = 3+6+6+6	1.90	1.78
7501499	7501511	7501523	19.1 ... 20.9	23 = 2+3+6+6+6	2.00	1.85
7501500	7501512	7501524	21.0 ... 23.5	26 = 2+6+6+6+6	2.40	2.28

Quantity buyers and dealers: please send us your request for quotation.

Technical data

Cable	special, wear-free, double insulated spiral cable
Number of wires/cross-section	4x 0.14 mm ²
Operating voltage	max. 48 V AC/DC
Max. load (at +25 °C)	max. 1.5 A eff.
Temperature range	-20 to +80 °C
Moving speed	40 m/min
Runway lengths	1.5 m to 23.5 m
System lengths	2.0 m to 26.0 m in fixed lengths: 2, 3, 4 and 6 m
Conduit rail	aluminium, anodized, warp resistant

At a glance

- Robust, simple, proven construction
- Quick and easy installation due to low number of components in modular form
- Maintenance-free
- Short envelope delay to meet the dynamic force and time parameters in accordance with EN 12453 and EN 12445