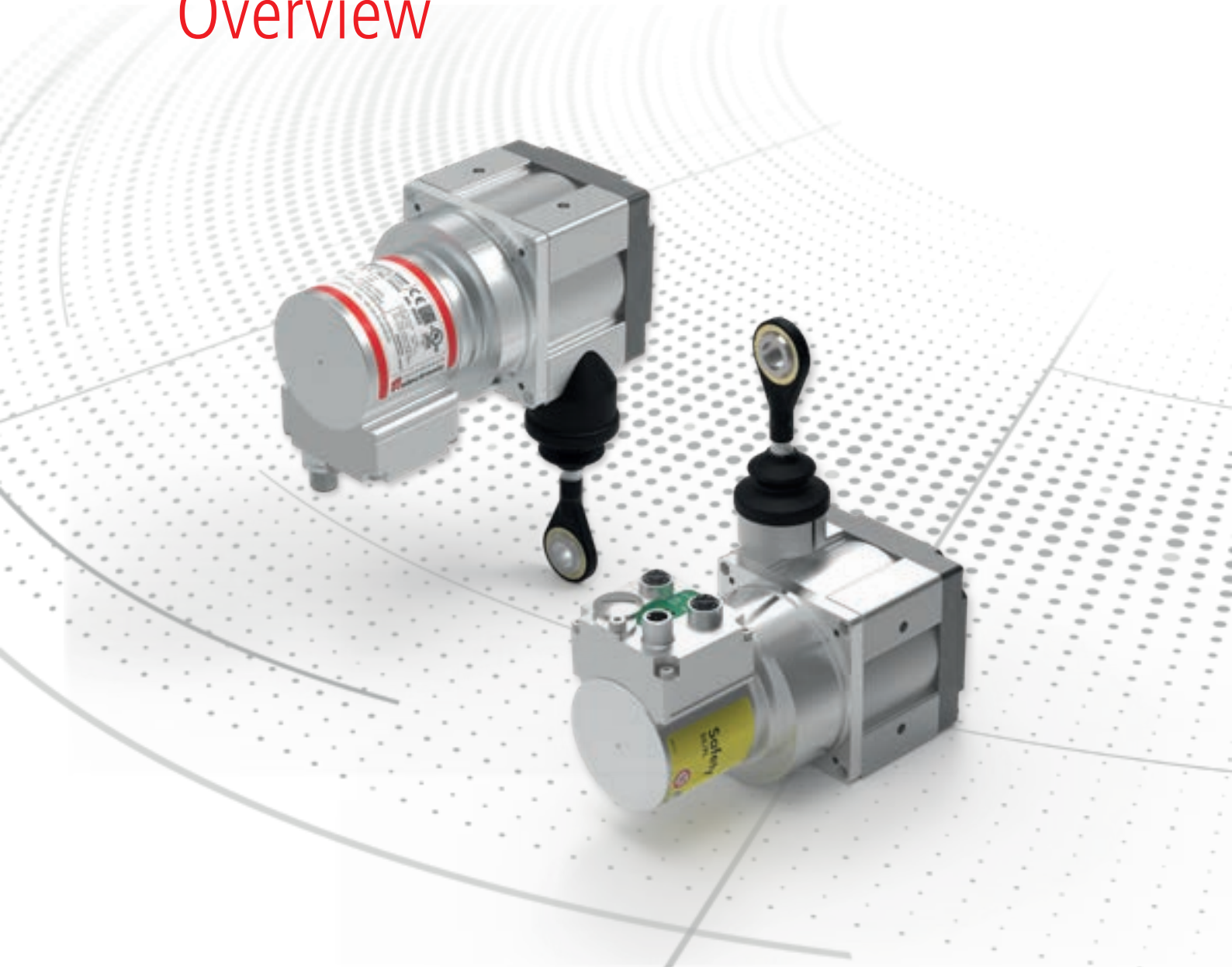
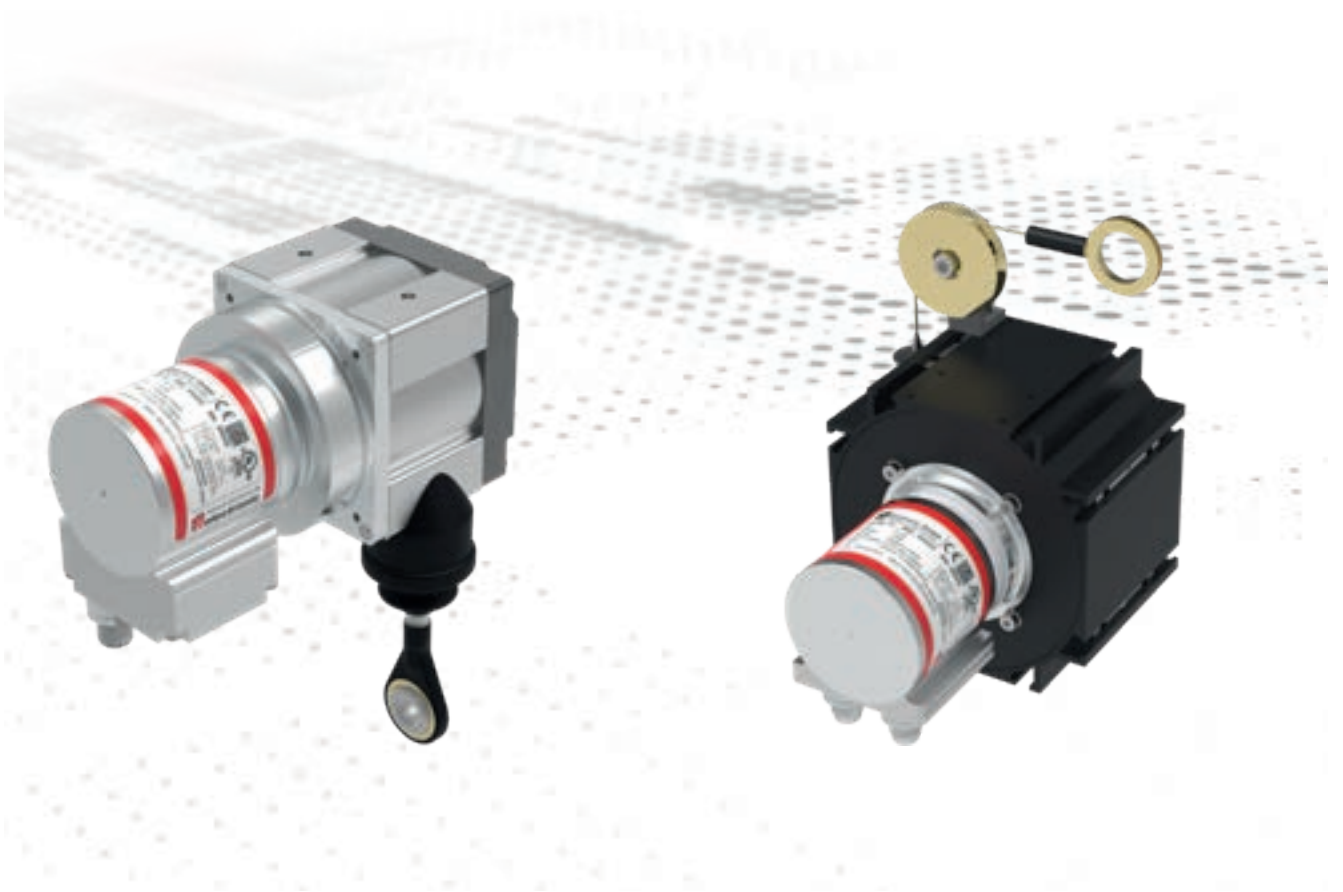


Wire Length Encoders Overview



Wire Length Encoders

















Wire length encoders with absolute rotary encoders or incremental rotary encoders

Wire length encoders from TR Electronic are the universally applicable, efficient and safe solution for recording linear movements in the warehousing and logistics sectors, for example, as well as in stage technology and many other applications. Their fundamental advantage lies in the particularly compact installation space: The wire on the measuring drum is only unwound when movement takes place, while the measuring range remains free until unwinding.

Wire length encoders by TR Electronic are equipped with absolute or incremental rotary encoders and fit the specific encoder series perfectly. We combine the wide variety of interfaces of our absolute and incremental encoders with different solutions to measure linear movements to fit exactly into your application. Also available with SIL2/3 encoder.

Technical Data































Product	SL00 size 55 mm	SL00 size 80 mm	SL00 size 130 mm
			
Available measurement lengths (m)	1,25	3	5; 10
Suits encoder series	36	58	58
Measurement wire made from	Stainless steel, 1.4401	Stainless steel, 1.4401	Stainless steel, 1.4401
Housing of drum	Plastic, Noryl	Plastic, Noryl	Plastic, Noryl
Housing of spring			
Ratio	150 mm/turn (typ.)	230 mm/turn (typ.)	385 mm/turn (typ.)
Options available			
Protection class	IP50	IP50	IP50
ATEX zone			
Interface more on request	<p>SSI</p> <p>CANopen</p> <p>IO-Link</p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SIL2/3 </p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SIL2/3 </p>
Option, additional interfaces (on request)	SSI INC	SSI INC	SSI INC
Weblink	www.tr-electronic.com/s/S020790	www.tr-electronic.com/s/S006900	www.tr-electronic.com/s/S006901
QR-Code			



























Technical Data

Product	WPS size K100 mm	WDS size 60 mm	WDS size 85 mm	
				
Available measurement lengths (m)	5	1,6	2,5	
Suits encoder series	362; 582	58	58	
Measurement wire made from	Stainless steel, covered with polyamide	Stainless steel, covered with polyamide	Stainless steel, covered with polyamide	
Housing of drum	Aluminium anodized	Aluminium anodized	Aluminium anodized	
Housing of spring				
Ratio	263,10 mm/turn (typ.)	150,12 mm/turn (typ.)	199,92 mm/turn (typ.)	
Options available				
Protection class	IP67	IP54 / IP65 (inlet points down)	IP54 / IP65 (inlet points down)	
ATEX zone				
Interface more on request	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>CIB2X</p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SSI+INC SSI+SSI</p> <p>CANopen + CANopen </p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SSI+INC SSI+SSI</p> <p>CANopen + CANopen </p>	
Option, additional interfaces (on request)		SSI INC	SSI INC	
Weblink	www.tr-electronic.com/s/S010902	www.tr-electronic.com/s/S010902	www.tr-electronic.com/s/S010790	
QR-Code				

	WDS size 96 mm	WDS size 115 mm	WDS size 200 mm
			
	2,3	5; 7,5; 10; 15	30; 40
	58	58; 65; 75	58; 65; 75
	Stainless steel, covered with polyamide	Stainless steel, covered with polyamide	Stainless steel, covered with polyamide
	Aluminium anodized	Aluminium anodized	Aluminium anodized
	260,2 mm/turn (typ.)	315,23 mm/turn (typ.)	500,21 mm/turn (typ.)
	Single or double deflection pulleys		
	IP54 / IP65 (inlet points down)	IP54 / IP65 (inlet points down)	IP54 / IP65 (inlet points down)
	<p> SSI </p> <p> ASI </p> <p> Analog </p> <p> Parallel </p> <p>  </p> <p>  </p> <p>  </p> <p> SSI+INC SSI+SSI</p> <p>  </p>	<p> SSI </p> <p> ASI </p> <p> Analog </p> <p> Parallel </p> <p>  </p> <p>  </p> <p>  </p> <p> SSI+INC SSI+SSI</p> <p>  </p>	<p> SSI </p> <p> ASI </p> <p> Analog </p> <p> Parallel </p> <p>  </p> <p>  </p> <p>  </p> <p> SSI+INC SSI+SSI</p> <p>  </p>
	SSI INC	SSI INC	SSI INC
	www.tr-electronic.com/s/5006903	www.tr-electronic.com/s/5006904	www.tr-electronic.com/s/5006905
			

Technical Data

Product	SL30 size 80 mm 	WDS size 115 mm „Longlife“ 	SL30 size 130 mm 	
Available measurement lengths (m)	2; 3	5	5; 10; 15; 20; 25; 30	
Suits encoder series	58; 65; 75; 81; 84	58	58; 65; 75; 81; 84	
Measurement wire made from	Stainless steel, 1.4401	Stainless steel, covered with polyamide	Stainless steel, 1.4401	
Housing of drum	Aluminium anodized	Aluminium anodized	Aluminium anodized	
Housing of spring	Plastic		Plastic	
Ratio	200 mm/turn (typ.)	315,23 mm/turn (typ.)	333,21 mm/Umdr (typ.)	
Options available	-30...+80 °C, wire brush, different deflection pulleys, bellow, fixed ball joint	Single deflection pulleys	-30...+80 °C, wire brush, different deflection pulleys, bellow, fixed ball joint	
Protection class	IP64	IP54 / IP65 (Seil nach unten)	IP64	
ATEX zone				
Interface more on request	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SIL2/3 </p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SIL2/3 </p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p>SIL2/3 </p>	
Option, additional interfaces (on request)		SSI Analog	SSI Analog	
Weblink	www.tr-electronic.com/s/S006906	www.tr-electronic.com/s/S006904	www.tr-electronic.com/s/S006907	
QR-Code				

	SL30 size 190 mm	SL30 ATEX size 80 mm	SL30 ATEX size 130 mm
			
	40; 50; 60	2; 3	10; 25
	58; 65; 75; 81; 84	58; 65; 70; 75; 115	58; 65; 70; 75; 115
	Stainless steel, 1.4401	Stainless steel, 1.4401	Stainless steel, 1.4401
	Aluminium anodized	Aluminium anodized	Aluminium anodized
	Plastic	Plastic	Plastic
	491,5 mm/turn (typ.)	200 mm/turn (typ.)	333,21 mm/turn (typ.)
	-30...+80 °C, wire brush, different deflection pulleys, bellow, fixed ball joint	-30...+80 °C, wire brush, different deflection pulleys, bellow, fixed ball joint	-30...+80 °C, wire brush, different deflection pulleys, bellow, fixed ball joint
	IP64	IP64	IP64
		2	2
	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p></p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p></p>	<p>SSI </p> <p>ASI </p> <p>Analog </p> <p>Parallel </p> <p> EtherNet/IP</p> <p> ETHERNET POWERLINK</p> <p>CANopen </p> <p></p>
	SSI Analog	SSI Analog	SSI Analog
	www.tr-electronic.com/s/S006908	www.tr-electronic.com/s/S006909	www.tr-electronic.com/s/S006910
			

Accessories

Ball joint

Standard for SL30, SL30 ATEX



Alternative rope ends

On request for SL30, SL30ATEX



Wire outlet

With bellow; SL30, SL 30 ATEX



Brush attachment

Option for SL30, SL 30 ATEX



Compressed air attachment

Option for SL30, SL 30 ATEX



Shown is only wire draw box without encoder

Illustrations are schematic diagrams. Binding dimension drawings and CAD data for specific order numbers at www.tr-electronic.com or on request.

Guide pulley

Option for SL30, SL 30 ATEX



Double guide pulley

Option for SL30, SL 30 ATEX



Illustrations are schematic diagrams. Binding dimension drawings and CAD data for specific order numbers at www.tr-electronic.com or on request.

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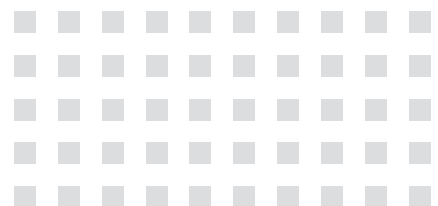
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Subject to technology and design modifications.

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