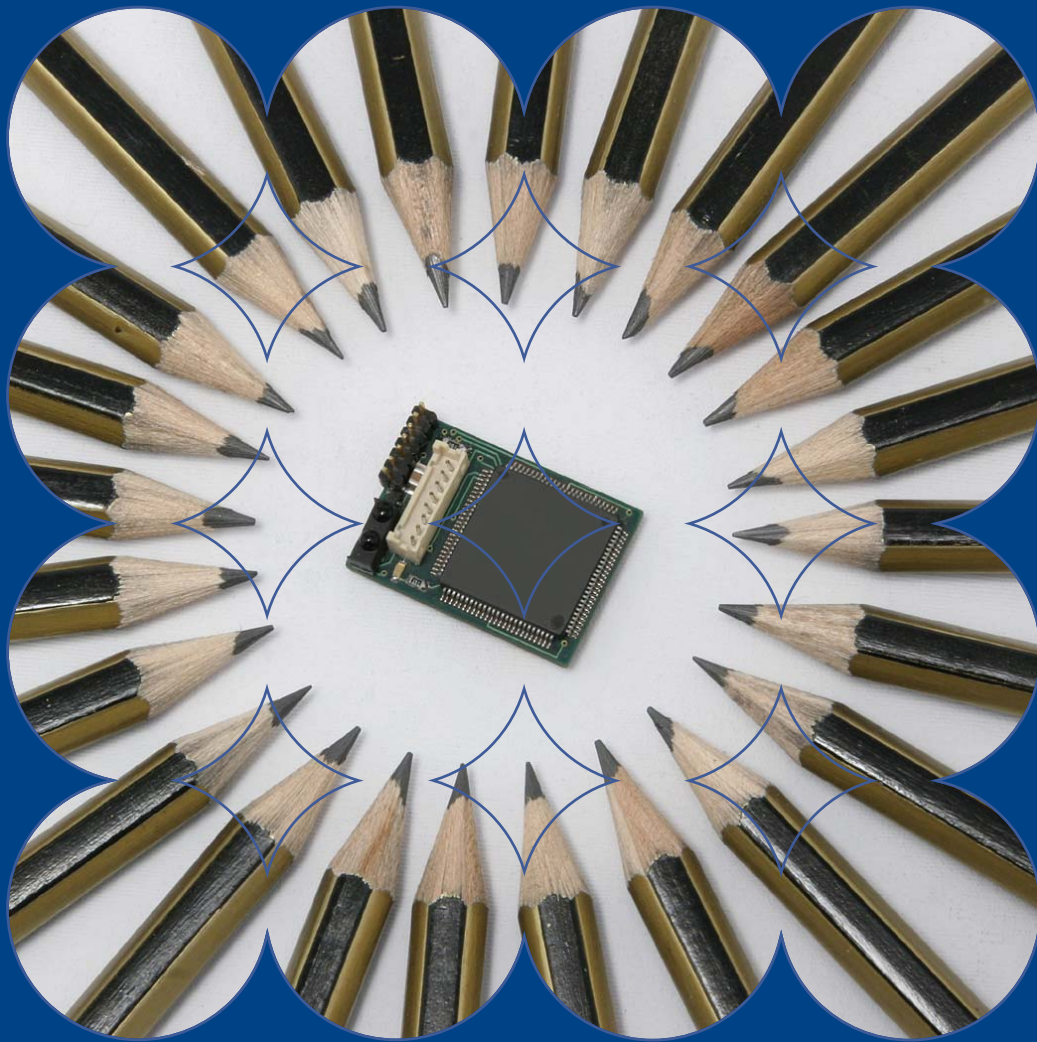


Smartlink™

Improving Chain Performance With Technology



RENOLD
Superior Chain Technology

Renold Smartlink™

Take advantage of Renold's unique diagnostics technology to deliver maximum performance.

- Ensure the smooth running of your chain drive
- Understand loadings applied to the chain
- Diagnose problems with alignment
- Pin point potential causes of reduced chain life
- Increase your production efficiency

Is Smartlink™ suitable for my application?

Is your problem caused by load?
Then yes, Smartlink™ is for you!

Is your problem caused by wear?
Talk to Renold about our market-leading chain range

Smartlink: The world's smallest data logger, unique to Renold





Level 1

Smartlink™ can help you in different ways. With a tiny microprocessor attached to the side plate, the unit can detect the stresses experienced by the chain as it travels through your machine.

Acting as an overload detector and controlled with a small infra-red remote control unit, the system can indicate when your chain exceeds a pre-determined load. This gives you the warning you need to inspect the system and ensure that it is safe to continue running the machine. Smartlink™ gives you the ability to reset the alarm condition using the remote control.

Level 2

To understand more about the working loads being applied to the chain drive there is a second level of diagnostics that Smartlink™ can provide using the same microprocessor unit on the chain but a higher level of sophistication in the remote handheld receiver. Using this receiver, more detailed information about the actual value of the load can be downloaded and transferred to a Windows-based PC. This data can be analysed to determine the exact location of the load peaks in the drive system.

Level 3

Renold also has a much more sophisticated microprocessor available but this unit needs expert support, normally requiring the service of a Renold engineer. This solution would be used in situations where there are unresolved issues or in safety critical applications where an exact prediction of fatigue life is important.

Renold can work in partnership with you to resolve these sorts of issues. Having already helped major companies around the world including manufacturers of earth moving equipment, agricultural machinery, materials handling at ports and leisure rides at theme parks, Renold Smartlink™ represents a groundbreaking opportunity to fully understand system loads which may be detrimental to the perfect performance of your product.

By demonstrating actual system loads Smartlink™ technology will help you to optimise your products at an early stage. When your new product is being used for field trials, make sure Smartlink™ is present, detecting performance, giving you the full picture.

Smartlink™ is even small enough to fit on 0.5" pitch roller chain. Light conveying applications such as those at chocolate manufacturers in the UK have benefited from trials that have given a better understanding of loads in the whole system.

Improvements to drive layout and optimum chain selection have all been made possible by the step change in understanding which has resulted.

Australia**Melbourne (Victoria)**

Tel: + 61 (0) 3 9262 3333
Fax: + 61 (0) 3 9561 8561
e-mail: melsmg@renold.com.au

*also at: Sydney, Brisbane, Adelaide, Perth,
Newcastle, Wollongong, Townsville*

Austria**Vienna**

Tel: + 43 (0) 1 330 3484
Fax: + 43 (0) 1 330 3484-5
e-mail: office@renold.at

*also at: Budapest (Hungary),
Zlin (Czech Republic)*

Belgium**Brussels**

Tel: + 32 (0) 2 201 1262
Fax: + 32 (0) 2 203 2210
e-mail: info@renold.be

Canada**Brantford (Ontario)**

Tel: + 1 519 756 6118
Fax: + 1 519 756 1767
e-mail: inquiry@renoldcanada.com

also at: Montreal

China**Shanghai**

Tel: + 21 5046 2696
Fax: + 21 5046 2695
e-mail: sales@renold.cn

France**Seclin**

Tel: + 33 (0) 320 16 29 29
Fax: + 33 (0) 320 16 29 00
e-mail: contact@brampton-renold.com

Germany**Einbeck**

Tel: + 49 (0) 5562 810
Fax: + 49 (0) 5562 81130
e-mail: info@renold.de

*also at: Bielefeld, Düsseldorf,
Kornwestheim*

Malaysia**Selangor Darul Ehsan**

Tel: + 60 3-5122 7880
Fax: + 60 3-5122 7881
e-mail: sales@renoldmalaysia.com

also at: Johor Bharu, Ipoh, Penang

Netherlands**Amsterdam**

Tel: + 31 (0)20 6146661
Fax: + 31 (0)20 6146391
e-mail: info@renold.nl

New Zealand**Auckland**

Tel: + 64 9828 5018
Fax: + 64 9828 5019
e-mail: aksales@renold.co.nz

also at: Christchurch

Philippines**Paranaque City**

Tel: + 63 2 829 6086
Fax: + 63 2 826 5211

Poland**c/o Einbeck (Germany)**

Tel: + 48 663 842 487

Russia**Moscow**

Tel: + 7 495 645 2250
Fax: + 7 495 645 2251
e-mail: info@renold.ru

Scandinavia**Brøndby (Copenhagen)**

Tel: + 45 43 45 26 11
Fax: + 45 43 45 65 92
e-mail: infor@renold.com

Singapore

Tel: + 65 6760 2422
Fax: + 65 6760 1507
e-mail: sales@renold.sg

South Africa**Benoni (Johannesburg)**

Tel: + 27 11 747 9500
Fax: + 27 11 747 9505
e-mail: sales@renold.co.za

*also at: Richards Bay,
Port Elizabeth, Cape Town*

Spain**Gavá (Barcelona)**

Tel: + 34 93 638 9641
Fax: + 34 93 638 0737
e-mail: spain@renold.com

Switzerland**Dübendorf (Zürich)**

Tel: + 41 (0) 44 824 8484
Fax: + 41 (0) 44 824 8411
e-mail: duebendorf@renold.com

also at: Crissier (Lausanne)

UK**Burton upon Trent**

Tel: + 44 (0) 1283 512940
Fax: + 44 (0) 1283 512628
e-mail: ukchain@renold.com

USA**Morristown TN**

Tel: + 1 800 251 9012
Fax: + 1 423 581 2399
e-mail: sales@renoldjeffrey.com

*For other country distributors please contact
Renold UK.*

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