



Specifications for ANSI X12 4010 850

SUMMARY

This transaction set is used to communicate from Danfoss Power Solutions the contents of a purchase order.

Danfoss Power Solutions uses the ANSI X12 – 850 (PO) specification version 4010. This specification is included as well as an example.

Notes regarding PO transmission from Danfoss Power Solutions

- All of the segments in the 850 are not illustrated, just the mandatory segments and the ones Danfoss PS uses. Refer to your EDI standards documentation for further information.

Special Characters

Delimiters

Danfoss PS uses the asterisk (*) for the element separator, the tilde (~) for the segment terminator, and the colon (:) for the sub-element separator.

VAN Information - Value Added Network

Danfoss Power Solutions currently uses the IBM Sterling B2B Integration network, including interconnects to other networks and communication protocols.

Please contact srhelp@us.ibm.com or visit <http://www.ibm.com/support>.

ISA/GS Information

Test

ISA ID qualifier: **ZZ**

ISA ID: **DANFOSSPSTST**

GS ID: **DANFOSSPSTST**

Production

ISA ID qualifier: **ZZ**

ISA ID: **DANFOSSPS**

GS ID: **DANFOSSPS**

EDI Contact:

PS.EDI@Danfoss.com



Specifications for ANSI X12 4010 850

850

Purchase Order

Functional Group = **PO**

This Standard contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgement information.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BEG	Beginning Segment for Purchase Order	M	1		
030	CUR	Currency	O	1		
060	PER	Administrative Communications Contact	O	3		

<u>LOOP ID - N1</u>					<u>200</u>	
310	N1	Name	M	1		
320	N2	Additional Name	O	1		
330	N3	Address Information	O	2		
340	N4	Geographic Location	O	>1		

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
<u>LOOP ID - PO1</u>					<u>100000</u>	
200	PO1	Baseline Item Data	M	1		
300	PID	Product/Item Description	M	1		
933	MSG	Message Text	O	999		

<u>LOOP ID - SAC</u>						
130	SAC	Service, Promotion, allowance, or Charge Info	O	1		

<u>LOOP ID - SCH</u>					<u>200</u>	
295	SCH	Line Item Schedule	O	1		

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
<u>LOOP ID - CTT</u>					<u>1</u>	
010	CTT	Transaction Totals	O	1		



Specifications for ANSI X12 4010 850

030 [SE](#) Transaction Set Trailer

M 1

REVISION HISTORY

VERSION	DATE	REMARKS
1.0	11/14/2008	Original
1.1	10/6/2009	Add PO105 element Add N2 segment
1.2	11/13/2009	Add MSG segment
1.3	11/23/2009	Moved MSG segment from N9 to PO1 group
1.4	02/10/2010	Add PO110 and PO111 - EC Rev Level
1.5	11/29/2012	Add CUR segment
1.6	12/18/2012	Added PID segment
2.0	07/26/2013	Updated to Danfoss specifications



Specifications for ANSI X12 4010 850

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>850</td><td>Purchase Order</td></tr></table>	<u>Code</u>	<u>Name</u>	850	Purchase Order			
<u>Code</u>	<u>Name</u>								
850	Purchase Order								
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9				



Specifications for ANSI X12 4010 850

BEG Beginning Segment for Purchase Order

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

To indicate the beginning of the Purchase Order Transaction set and transmit identifying numbers and dates.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>								
BEG01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2								
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>01</td> <td>Cancel</td> </tr> <tr> <td>04</td> <td>Change</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	01	Cancel	04	Change			
<u>Code</u>	<u>Name</u>												
00	Original												
01	Cancel												
04	Change												
BEG02	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order	M	ID	2/2								
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SA</td> <td>Stand-Alone Order</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SA	Stand-Alone Order							
<u>Code</u>	<u>Name</u>												
SA	Stand-Alone Order												
BEG03	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22								
BEG05	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8								



Specifications for ANSI X12 4010 850

CUR Currency

Pos: 030	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>								
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Description: Code identifying purpose of transaction set	O	ID	2/3								
		<table><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>BY</td><td>Buying Party (Purchaser)</td></tr></tbody></table>	<u>Code</u>	<u>Name</u>	BY	Buying Party (Purchaser)							
<u>Code</u>	<u>Name</u>												
BY	Buying Party (Purchaser)												
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3								
		<table><thead><tr><th><u>Code</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>USD</td><td>US Dollars</td></tr><tr><td>EUR</td><td>Euros</td></tr><tr><td>Etc.</td><td></td></tr></tbody></table>	<u>Code</u>	<u>Name</u>	USD	US Dollars	EUR	Euros	Etc.				
<u>Code</u>	<u>Name</u>												
USD	US Dollars												
EUR	Euros												
Etc.													



Specifications for ANSI X12 4010 850

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
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PER Administrative Communications Contact

Pos: 060	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

To identify a person or office to whom administrative communications should be directed.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>				
PER01	353	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">BD</td> <td style="text-align: center;">Buyer Name or Department</td> </tr> </table>	<u>Code</u>	<u>Name</u>	BD	Buyer Name or Department	M	ID	2/2
<u>Code</u>	<u>Name</u>								
BD	Buyer Name or Department								
PER02	93	Name Description: Free-form Name	O	AN	1/60				
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">TE</td> <td style="text-align: center;">Telephone</td> </tr> </table>	<u>Code</u>	<u>Name</u>	TE	Telephone	M	AN	1/22
<u>Code</u>	<u>Name</u>								
TE	Telephone								
PER04	364	Communication Number Description: Complete communication number including country or area code when applicable	M	DT	8/8				
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">FX</td> <td style="text-align: center;">Facsimile</td> </tr> </table>	<u>Code</u>	<u>Name</u>	FX	Facsimile	X	ID	2/2
<u>Code</u>	<u>Name</u>								
FX	Facsimile								
PER06	364	Communication Number Description: Complete communication number including country or area code when applicable	X	AN	1/80				



Specifications for ANSI X12 4010 850

N1 Name

Pos: 310	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 3

To identify a party by type of organization, name, and code.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N101	98	Entity Identifier Code Description: Code identifying purpose of transaction set	M	ID	2/3
		<u>Code</u> SU			
		<u>Name</u> Supplier/Manufacturer			
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2
		<u>Code</u> 92			
		<u>Name</u> Assigned by buyer or buyer's agent			
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80
		<u>Code</u> Your supplier number			



Specifications for ANSI X12 4010 850

N1 Name

Pos: 310	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

To identify a party by type of organization, name, and code.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>				
N101	98	Entity Identifier Code Description: Code identifying purpose of transaction set	M	ID	2/3				
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">ST</td> <td style="text-align: center;">Ship To</td> </tr> </table>	<u>Code</u>	<u>Name</u>	ST	Ship To			
<u>Code</u>	<u>Name</u>								
ST	Ship To								
N102	93	Name Description: Free-form name	X	AN	1/80				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	X	ID	1/2				
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">Plant Code</td> </tr> </table>	<u>Code</u>	<u>Name</u>	6	Plant Code			
<u>Code</u>	<u>Name</u>								
6	Plant Code								
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80				
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td></td> </tr> <tr> <td style="text-align: center;">Danfoss PS Plant Code</td> <td></td> </tr> </table>	<u>Code</u>		Danfoss PS Plant Code				
<u>Code</u>									
Danfoss PS Plant Code									



Specifications for ANSI X12 4010 850

N2 Additional Name Information

Pos: 320	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 2

Additional name information.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N201	093	Name Description: Name Information	M	AN	1/60
N202	093	Name Description: Name Information	O	AN	1/60



Specifications for ANSI X12 4010 850

N3 Address Information

Pos: 330	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 2

To specify the location of the named party.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N301	166	Address Information Description: Address Information	M	AN	1/55
N302	166	Address Information Description: Address Information	O	AN	1/55



Specifications for ANSI X12 4010 850

N4 Geographic Location

Pos: 340	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

To specify the geographic place of the named party.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30
N402	156	State or Province Code Description: Code(Standard State/Province) as defined by appropriate government agency	O	ID	2/2
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15
N404	26	Country Code Description: Code identifying the country	O	ID	2/3



Specifications for ANSI X12 4010 850

PO1 Baseline Item Data

Pos: 0200	Max: 99999
Heading - Mandatory	
Loop: PO1	Elements: 11

To specify basic and most frequently used line item data.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>												
PO101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20												
PO102	330	Quantity Ordered Description: Quantity Ordered	X	R	1/15												
PO103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2												
PO104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/17												
PO105	639	Basis of Unit Price Code	X	ID	2/2												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TE</td> <td>Price per Each</td> </tr> <tr> <td>PN</td> <td>Price per Ten</td> </tr> <tr> <td>PD</td> <td>Price per Dozen</td> </tr> <tr> <td>TC</td> <td>Price per Hundred</td> </tr> <tr> <td>TM</td> <td>Price per Thousand</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TE	Price per Each	PN	Price per Ten	PD	Price per Dozen	TC	Price per Hundred	TM	Price per Thousand			
<u>Code</u>	<u>Name</u>																
TE	Price per Each																
PN	Price per Ten																
PD	Price per Dozen																
TC	Price per Hundred																
TM	Price per Thousand																
PO106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BP</td> <td>Danfoss material number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BP	Danfoss material number											
<u>Code</u>	<u>Name</u>																
BP	Danfoss material number																
PO107	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48												
PO108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>VP</td> <td>Supplier's material number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	VP	Supplier's material number											
<u>Code</u>	<u>Name</u>																
VP	Supplier's material number																
PO109	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48												



Specifications for ANSI X12 4010 850

PO110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>EC</td><td>Engineering Change Revision Level</td></tr></table>	<u>Code</u>	<u>Name</u>	EC	Engineering Change Revision Level			
<u>Code</u>	<u>Name</u>								
EC	Engineering Change Revision Level								
PO111	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48				



Specifications for ANSI X12 4010 850

PID Product/Item Description

Pos: 300	Max: 1
Heading - Optional	
Loop: PO1	Elements: 2

To provide a free-form format that allows the transmission of text information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
PID 01	349	Item Description Type	M	ID	1/1
		Description: Code indicating the format of a description			
		<u>Code:</u>	<u>Name:</u>		
		F	Free form		
PID 05	352	Description	X	AN	1/264
		Description: A free-form description to clarify the related data elements and their content			



Specifications for ANSI X12 4010 850

MSG Message Text

Pos: 4100	Max: 999
Heading - Optional	
Loop: PO1	Elements: 1

To provide a free-form format that allows the transmission of text information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
MSG 01	933	Free-Form Message Text	M	AN	1/264



Specifications for ANSI X12 4010 850

SAC Service, Promotion, Allowance or Charge Information

Pos: 295	Max: 1
Heading - Optional	
Loop: SAC	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>						
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M/Z	ID	1/1						
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> <tr> <td>A</td> <td>Allowance</td> </tr> </table>	<u>Code</u>	<u>Name</u>	C	Charge	A	Allowance			
<u>Code</u>	<u>Name</u>										
C	Charge										
A	Allowance										
SAC02	1300	Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge	X	ID	4/4						
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>D240</td> <td>Freight</td> </tr> <tr> <td>H000</td> <td>Special Allowance</td> </tr> </table>	<u>Code</u>	<u>Name</u>	D240	Freight	H000	Special Allowance			
<u>Code</u>	<u>Name</u>										
D240	Freight										
H000	Special Allowance										
SAC05	610	Amount Description: Monetary amount	O/Z	N2	1/15						
SAC12	331	Allowance or Charge Method of Handling Code Description: Code indicating method of handling for an allowance or charge	O	ID	2/2						
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>05</td> <td>Charge to be paid by Vendor</td> </tr> <tr> <td>06</td> <td>Charge to be paid by Customer</td> </tr> </table>	<u>Code</u>	<u>Name</u>	05	Charge to be paid by Vendor	06	Charge to be paid by Customer			
<u>Code</u>	<u>Name</u>										
05	Charge to be paid by Vendor										
06	Charge to be paid by Customer										
SAC15	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80						



Specifications for ANSI X12 4010 850

SCH Line Item Schedule

Pos: 295	Max: 9999
Heading - Mandatory	
Loop: SCH	Elements: 4

To specify the data for scheduling a specific line-item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>				
SCH01	380	Quantity Description: Numeric value of quantity	M	R	1/15				
SCH02	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2				
SCH05	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>002</td> <td>Delivery Date</td> </tr> </table>	<u>Code</u>	<u>Name</u>	002	Delivery Date			
<u>Code</u>	<u>Name</u>								
002	Delivery Date								
SCH06	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8				



Specifications for ANSI X12 4010 850

CTT Transaction Totals

Pos: 100	Max: 1
Heading - Optional	
Loop: CTT	Elements: 1

To transmit a hash total for a specific element in the transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6



Specifications for ANSI X12 4010 850

SE Transaction Set Trailer

Pos: 030	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of a transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including the ST and SE segments	M	N0	1/10
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9

Example:

```

ST*850*000001
BEG*00*SA*123456**20081212
CUR*BY*USD
PER*BD*BuyersName*TE*TelephoneNumber*FX*FaxNumber
N1*SU**92*SupplierNumber
N1*ST*Ship-toName*6*PlantCode
N2*Name2*Name3
N3*Address1*Address2.
N4*City*State*Zipcode*CountryCode.
PO1*00001*5*PC*252.82*TE*BP*SDMaterialNumber*VP*SupplierMaterialNumber*EC*RevisionNumber
MSG*TextMessage
SCH*5*PC***002*20100102
CTT*1
SE*10*000001

```