# SUMMARY

This transaction set is used to communicate to Danfoss Power Solutions the contents of a shipment.

Danfoss Power Solutions uses the ANSI X12 – 856 (ASN) specification version 4010. This specification is included as well as examples of its uses.

**Special Characters**
Delimiters
Danfoss Power Solutions 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

# 856 Advance Ship Notice/Manifest

**Functional Group = SH**

This Standard contains the format and establishes the data contents of the Advance Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, and type of packaging, marking, carrier information, and configuration of goods within the transportation equipment.

**Specifications for ANSI X12 4010 856**

**Segment: ISA Interchange Control Header**

**Position:** 002
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **ISA01** | **I01** | **Authorization Information Qualifier**<br>Code to identify the type of information in the Authorization Information<br>00 No Authorization Information Present (No Meaningful Information in I02) | **M** | **ID 2/2** | **M** |
| **ISA02** | **I02** | **Authorization Information**<br>Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)<br>***Will contain blanks.*** | **M** | **AN 10/10** | **M** |
| **ISA03** | **I03** | **Security Information Qualifier**<br>Code to identify the type of information in the Security Information<br>00 No Security Information Present (No Meaningful Information in I04) | **M** | **ID 2/2** | **M** |
| **ISA04** | **I04** | **Security Information**<br>This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)<br>***Will contain blanks.*** | **M** | **AN 10/10** | **M** |
| **ISA05** | **I05** | **Interchange Sender ID Qualifier**<br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified<br>***Assigned by Supplier.*** | **M** | **ID 2/2** | **M** |
| **ISA06** | **I06** | **Interchange Sender ID**<br>Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the | **M** | **AN 15/15** | **M** |

| | | | | | |
|---|---|---|---|---|---|
| | | sender ID element<br>***Test and Production IDs to be assigned by Supplier.*** | | | |
| **ISA07** | **I05** | **Interchange Receiver ID Qualifier**<br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified<br>**ZZ** | **M** | **ID 2/2** | **M** |
| **ISA08** | **I07** | **Interchange Receiver ID**<br>Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them<br>**Test = DANFOSSPSTST**<br>**Production = DANFOSSPS** | **M** | **AN 15/15** | **M** |
| **ISA09** | **I08** | **Interchange Date**<br>Date of the interchange | **M** | **DT 6/6** | **M** |
| **ISA10** | **I09** | **Interchange Time**<br>Time of the interchange | **M** | **TM 4/4** | **M** |
| **ISA11** | **I10** | **Interchange Control Standards Identifier**<br>Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer<br>U U.S. EDI Community of ASC X12, TDCC, and UCS | **M** | **ID 1/1** | **M** |
| **ISA12** | **I11** | **Interchange Control Version Number**<br>This version number covers the interchange control segments<br>00400 Standard Issued as ANSI X12.5-1997 | **M** | **ID 5/5** | **M** |
| **ISA13** | **I12** | **Interchange Control Number**<br>A control number assigned by the interchange sender | **M** | **N0 9/9** | **M** |
| **ISA14** | **I13** | **Acknowledgment Requested**<br>Code sent by the sender to request an interchange acknowledgment (TA1)<br>0 No Acknowledgment Requested | **M** | **ID 1/1** | **M** |
| **ISA15** | **I14** | **Usage Indicator**<br>Code to indicate whether data enclosed by this interchange envelope is test, production or information<br>P Production Data<br>T Test Data | **M** | **ID 1/1** | **M** |
| **ISA16** | **I15** | **Sub-Element Separator**<br>Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator<br>***Danfoss PS suggests using the Greater-Than symbol (>).*** | **M** | **AN 1/1** | **M** |

**Specifications for ANSI X12 4010 856**

**Segment:** **GS** **Functional Group Header**
**Position:** 005
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To indicate the beginning of a functional group and to provide control information
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **GS01** | **479** | **Functional Identifier Code**<br>Code identifying a group of application related transaction sets<br>SH Ship Notice/Manifest (856) | **M** | **ID 2/2** | **M** |
| **GS02** | **142** | **Application Sender's Code**<br>Code identifying party sending transmission; codes agreed to by trading partners<br>***To be determined at implementation.*** | **M** | **AN 2/15** | **M** |
| **GS03** | **124** | **Application Receiver's Code**<br>Code identifying party receiving transmission; codes agreed to by trading partners<br>***Defined by Customer.*** | **M** | **AN 2/15** | **M** |
| **GS04** | **373** | **Date**<br>Date expressed as CCYYMMDD | **M** | **DT 8/8** | **M** |
| **GS05** | **337** | **Time**<br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | **M** | **TM 4/8** | **M** |
| **GS06** | **28** | **Group Control Number**<br>Assigned number originated and maintained by the sender | **M** | **N0 1/9** | **M** |
| **GS07** | **455** | **Responsible Agency Code**<br>Code used in conjunction with Data Element 480 to identify the issuer of the standard<br>X Accredited Standards Committee X12 | **M** | **ID 1/2** | **M** |
| **GS08** | **480** | **Version / Release / Industry Identifier Code**<br>Code indicating the version, release, sub release, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version | **M** | **AN 1/12** | **M** |

number; positions 4-6 are the release and sub release, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

| | |
|---|---|
| 004010 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997 |

**Specifications for ANSI X12 4010 856**

**Segment:** **ST** **Transaction Set Header**
**Position:** 010
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To indicate the start of a transaction set and to assign a control number
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **ST01** | **143** | **Transaction Set Identifier Code**<br>Code uniquely identifying a Transaction Set<br>856 Ship Notice/Manifest | **M ID 3/3** | **M** |
| **ST02** | **329** | **Transaction Set Control Number**<br>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** | **M** |

**Specifications for ANSI X12 4010 856**

**Segment:** **BSN** **Beginning Segment for Ship Notice**
**Position:** 020
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set
**Syntax Notes:** **1** If BSN07 is present, then BSN06 is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **BSN01** | **353** | **Transaction Set Purpose Code**<br>Code identifying purpose of transaction set<br>00 Original | **M** | **ID 2/2** | **M** |
| **BSN02** | **396** | **Shipment Identification**<br>A unique control number assigned by the original shipper to identify a specific shipment | **M** | **AN 2/30** | **M** |
| **BSN03** | **373** | **Ship Notice Creation Date**<br>Date expressed as CCYYMMDD | **M** | **DT 8/8** | **M** |
| **BSN04** | **337** | **Ship Notice Creation Time**<br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | **M** | **TM 4/8** | **M** |

**Segment:** **DTM** **Date/Time Reference (Shipped)**
**Position:** 040
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To specify pertinent dates and times
**Syntax Notes:**
**1** At least one of DTM02 DTM03 or DTM05 is required.
**2** If DTM04 is present, then DTM03 is required.
**3** If either DTM05 or DTM06 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **DTM01** | **374** | **Date/Time Qualifier**<br>Code specifying type of date or time, or both date and time<br>011 Shipped | **M ID 3/3** | **M** |
| **DTM02** | **373** | **Date**<br>Date expressed as CCYYMMDD | **X DT 8/8** | |
| **DTM03** | **337** | **Time**<br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)<br>***If present, contains time of shipment.*** | **X TM 4/8** | |
| **DTM04** | **623** | **Time Code**<br>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow | **O ID 2/2** | |

**Segment:** **DTM** **Date/Time Reference (Delivery)**
**Position:** 040
**Loop:**
**Level:** Heading
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To specify pertinent dates and times
**Syntax Notes:**
**1** At least one of DTM02 DTM03 or DTM05 is required.
**2** If DTM04 is present, then DTM03 is required.
**3** If either DTM05 or DTM06 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **DTM01** | **374** | **Date/Time Qualifier**<br>Code specifying type of date or time, or both date and time<br>017 Estimated Delivery Date | **M** | **ID 3/3** | **M** |
| **DTM02** | **373** | **Date**<br>Date expressed as CCYYMMDD | **X** | **DT 8/8** | |
| **DTM03** | **337** | **Time**<br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)<br>***If present, contains time of shipment.*** | **X** | **TM 4/8** | |
| **DTM04** | **623** | **Time Code**<br>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow | **O** | **ID 2/2** | |

**Specifications for ANSI X12 4010 856**

**Segment:** **HL** **Hierarchical Level (Shipment)**
**Position:** 010
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **HL01** | **628** | **Hierarchical ID Number**<br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>***Will contain '1' at the Shipment level.*** | **M AN 1/12** | **M** |
| **HL02** | **734** | **Hierarchical Parent ID Number**<br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to<br>***Will contain blanks at the Shipment level.*** | **O AN 1/12** | |
| **HL03** | **735** | **Hierarchical Level Code**<br>Code defining the characteristic of a level in a hierarchical structure<br>S Shipment | **M ID 1/2** | **M** |
| **HL04** | **736** | **Hierarchical Child Code**<br>Code indicating if there are hierarchical child data segments subordinate to the level being described<br>1 Additional Subordinate HL Data Segment in This Hierarchical Structure. | **O ID 1/1** | |

**Segment:** **TD1** **Carrier Details (Quantity and Weight)**
**Position:** 110
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** 20
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity
**Syntax Notes:**
**1** If TD101 is present, then TD102 is required.
**2** If TD103 is present, then TD104 is required.
**3** If TD106 is present, then TD107 is required.
**4** If either TD107 or TD108 is present, then the other is required.
**5** If either TD109 or TD110 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **TD101** | **103** | **Packaging Code**<br>Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required<br>CTN Carton<br>71 Not Otherwise Specified | **O AN 3/5** | |
| **TD102** | **80** | **Lading Quantity**<br>Number of units (pieces) of the lading commodity | **X N0 1/7** | |
| **TD106** | **187** | **Weight Qualifier**<br>Code defining the type of weight<br>G Gross Weight | **O ID 1/2** | |
| **TD107** | **81** | **Weight**<br>Numeric value of weight<br>***Gross Weight (in pounds) of the Shipment.*** | **X R 1/10** | |
| **TD108** | **355** | **Unit or Basis for Measurement Code**<br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>PG Pounds Gross | **X ID 2/2** | |

**Segment:** **TD5** **Carrier Details (Routing Sequence/Transit Time)**
**Position:** 120
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** 12
**Purpose:** To specify the carrier and sequence of routing and provide transit time information
**Syntax Notes:**
**1** At least one of TD502 TD504 TD505 TD506 or TD512 is required.
**2** If TD502 is present, then TD503 is required.
**3** If TD507 is present, then TD508 is required.
**4** If TD510 is present, then TD511 is required.
**5** If TD513 is present, then TD512 is required.
**6** If TD514 is present, then TD513 is required.
**7** If TD515 is present, then TD512 is required.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| **TD501** | **133** | **Routing Sequence Code**<br>Code describing the relationship of a carrier to a specific shipment movement<br>B Origin/Delivery Carrier (Any Mode) | **M ID 1/2** |
| **TD502** | **66** | **Identification Code Qualifier**<br>Code designating the system/method of code structure used for Identification Code (67)<br>2 Standard Carrier Alpha Code (SCAC) | **M ID 1/2** |
| **TD503** | **67** | **Identification Code**<br>Code identifying a party or other code<br>***Standard Carrier Alpha Code*** | **M AN 2/80** |
| **TD504** | **91** | **Transportation Method/Type Code**<br>Code specifying the method or type of transportation for the shipment | **X ID 1/2** |

**Specifications for ANSI X12 4010 856**

**Segment:** **REF** **Reference Identification (Packing List Number)**
**Position:** 150
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** >1
**Purpose:** To specify identifying information
**Syntax Notes:**
**1** At least one of REF02 or REF03 is required.
**2** If either C04003 or C04004 is present, then the other is required.
**3** If either C04005 or C04006 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **REF01** | **128** | **Reference Identification Qualifier**<br>Code qualifying the Reference Identification<br>PK Packing List Number | **M** | **ID 2/3** | **M** |
| **REF02** | **127** | **Reference Identification**<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | **X** | **AN 1/30** | |
| **REF03** | **352** | **Description**<br>A free-form description to clarify the related data elements and their content | **X** | **AN 1/80** | |

**Specifications for ANSI X12 4010 856**

**Segment: REF Reference Identification (Bill of Lading Number)**

**Position:** 150
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** >1
**Purpose:** To specify identifying information
**Syntax Notes:**
**1** At least one of REF02 or REF03 is required.
**2** If either C04003 or C04004 is present, then the other is required.
**3** If either C04005 or C04006 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **REF01** | **128** | **Reference Identification Qualifier**<br>Code qualifying the Reference Identification<br>BM Bill of Lading Number | **M** | **ID 2/3** | **M** |
| **REF02** | **127** | **Reference Identification**<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | **X** | **AN 1/30** | |
| **REF03** | **352** | **Description**<br>A free-form description to clarify the related data elements and their content | **X** | **AN 1/80** | |

**Specifications for ANSI X12 4010 856**

**Segment: N1 Name**

**Position:** 410
**Loop:** N1 Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To identify a party by type of organization, name, and code
**Syntax Notes:** **1** At least one of N102 or N103 is required.
**2** If either N103 or N104 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **N101** | **98** | **Entity Identifier Code**<br>Code identifying an organizational entity, a physical location, property or an individual<br>BT Bill-to-Party<br>BY Buying Party (Purchaser)<br>SE Selling Party<br>SF Ship From<br>**ST Ship To**<br>**SU Supplier ID** | **M ID 2/3** | **M** |
| **N102** | **93** | **Name**<br>Free-form name | **X AN 1/60** | |
| **N103** | **66** | **Identification Code Qualifier**<br>Code designating the system/method of code structure used for Identification Code (67)<br>91 Assigned by Seller or Seller's Agent<br>92 Assigned by Buyer or Buyer's Agent | **X ID 1/2** | >> |
| **N104** | **67** | **Identification Code**<br>Code identifying a party or other code<br>***If N103 = '91', contains Vendor's assigned code.***<br>***If N103 = '92', contains Customer's assigned code.*** | **X AN 2/80** | >> |

- **Ship To (ST) and Supplier ID (SU) are mandatory for Danfoss PS**

**Segment:** **N2** **Additional Name Information**
**Position:** 420
**Loop:** N1 Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** 2
**Purpose:** To specify additional names or those longer than 35 characters in length
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **N201** | **93** | **Name**<br>Free-form name<br>***Additional name.*** | **M AN 1/60** | **M** |
| **N202** | **93** | **Name**<br>Free-form name<br>***Additional name.*** | **O AN 1/60** | |

**Specifications for ANSI X12 4010 856**

**Segment:** **N3** **Address Information**
**Position:** 430
**Loop:** N1 Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** 2
**Purpose:** To specify the location of the named party
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **N301** | **166** | **Address Information**<br>Address information<br>***First line of address.*** | **M AN 1/55** | **M** |
| **N302** | **166** | **Address Information**<br>Address information<br>***Second line of address.*** | **O AN 1/55** | |

**Segment:** **N4** **Geographic Location**
**Position:** 440
**Loop:** N1 Mandatory
**Level:** Detail
**Usage:** Optional
**Max Use:** 1
**Purpose:** To specify the geographic place of the named party
**Syntax Notes:** **1** If N406 is present, then N405 is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **N401** | **19** | **City Name**<br>Free-form text for city name | **O AN 2/30** | |
| **N402** | **156** | **State or Province Code**<br>Code (Standard State/Province) as defined by appropriate government agency | **O ID 2/2** | |
| **N403** | **116** | **Postal Code**<br>Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | **O ID 3/15** | |
| **N404** | **26** | **Country Code**<br>Code identifying the country | **O ID 2/3** | |

**Specifications for ANSI X12 4010 856**

**Segment:** **HL** **Hierarchical Level (Item)**
**Position:** 385
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **HL01** | **628** | **Hierarchical ID Number**<br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>***Next sequential Hierarchical ID Number (previous HL01 number + 1).*** | **M AN 1/12** | **M** |
| **HL02** | **734** | **Hierarchical Parent ID Number**<br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to<br>***Hierarchical ID Number (HL01) from the previous Shipment-level 'HL' segment.*** | **O AN 1/12** | |
| **HL03** | **735** | **Hierarchical Level Code**<br>Code defining the characteristic of a level in a hierarchical structure<br>I Item | **M ID 1/2** | **M** |
| **HL04** | **736** | **Hierarchical Child Code**<br>Code indicating if there are hierarchical child data segments subordinate to the level being described<br>0 No Subordinate HL Segment in This Hierarchical Structure. | **O ID 1/1** | |

**Specifications for ANSI X12 4010 856**

**Segment:** **LIN** **Item Identification**
**Position:** 390
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To specify basic item identification data
**Syntax Notes:** **1** If either LIN04 or LIN05 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **LIN01** | **350** | **Assigned Identification**<br>Alphanumeric characters assigned for differentiation within a transaction set<br>***Purchase Order Line Number*** | **M** | **AN 1/20** | |
| **LIN02** | **235** | **Product/Service ID Qualifier**<br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>BP Buyer's Part Number | **M** | **ID 2/2** | **M** |
| **LIN03** | **234** | **Product/Service ID**<br>Identifying number for a product or service<br>***Danfoss PS Part Number*** | **M** | **AN 1/48** | **M** |
| **LIN04** | **235** | **Product/Service ID Qualifier**<br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>VP Vendor's (Seller's) Part Number | **X** | **ID 2/2** | |
| **LIN05** | **234** | **Product/Service ID**<br>Identifying number for a product or service<br>***Supplier Part Number*** | **X** | **AN 1/48** | |

**Segment:** **SN1** **Item Detail (Shipment)**
**Position:** 400
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To specify line-item detail relative to shipment
**Syntax Notes:** **1** If either SN105 or SN106 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **SN101** | **350** | **Assigned Identification**<br>Alphanumeric characters assigned for differentiation within a transaction set<br>***Ship Notice Line Number.*** | **O AN 1/20** | |
| **SN102** | **382** | **Number of Units Shipped**<br>Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | **M R 1/10** | **M** |
| **SN103** | **355** | **Unit or Basis for Measurement Code**<br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>EA Each | **M ID 2/2** | **M** |

**Specifications for ANSI X12 4010 856**

**Segment: PRF Purchase Order Reference**

**Position:** 050
**Loop:** HL Mandatory
**Level:** Detail
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To provide reference to a specific purchase order
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **PRF01** | **324** | **Purchase Order Number**<br>Identifying number for Purchase Order assigned by the orderer/purchaser<br>***Customer's Purchase Order Number.*** | **M AN 1/22** | **M** |
| **PRF02** | **328** | **Release Number**<br>Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction<br>***Customer's Release Number.*** | **O AN 1/30** | |
| **PRF04** | **373** | **Purchase Order Date**<br>Date expressed as CCYYMMDD<br>***Customer's Purchase Order Date.*** | **O DT 8/8** | |

**Segment:** **CTT** **Transaction Totals**
**Position:** 010
**Loop:**
**Level:** Summary
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To transmit a hash total for a specific element in the transaction set
**Syntax Notes:** **1** If either CTT03 or CTT04 is present, then the other is required.
**2** If either CTT05 or CTT06 is present, then the other is required.

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **CTT01** | **354** | **Number of Line Items**<br>Total number of line items in the transaction set<br>***Number of HL segments in this transaction set.*** | **M** | **N0 1/6** | **M** |

**Segment:** **SE** **Transaction Set Trailer**
**Position:** 020
**Loop:**
**Level:** Summary
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | | User Attributes |
|---|---|---|---|---|---|
| **SE01** | **96** | **Number of Included Segments**<br>Total number of segments included in a transaction set including ST and SE segments | **M** | **N0 1/10** | **M** |
| **SE02** | **329** | **Transaction Set Control Number**<br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set<br>***This number must match the Transaction Set Control Number (ST02) value.*** | **M** | **AN 4/9** | **M** |

**Segment:** **GE** **Functional Group Trailer**
**Position:** 030
**Loop:**
**Level:** Summary
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To indicate the end of a functional group and to provide control information
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **GE01** | **97** | **Number of Transaction Sets Included**<br>Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element | **M N0 1/6** | **M** |
| **GE02** | **28** | **Group Control Number**<br>Assigned number originated and maintained by the sender<br>***This number must match the Group Control Number (GS06) value.*** | **M N0 1/9** | **M** |

**Specifications for ANSI X12 4010 856**

**Segment:** **IEA** **Interchange Control Trailer**
**Position:** 040
**Loop:**
**Level:** Summary
**Usage:** Mandatory
**Max Use:** 1
**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments
**Syntax Notes:**

**Data Element Summary**

| Ref. Des. | Data Element | Name | Base Attributes | User Attributes |
|---|---|---|---|---|
| **IEA01** | **I16** | **Number of Included Functional Groups**<br>A count of the number of functional groups included in an interchange | **M N0 1/5** | **M** |
| **IEA02** | **I12** | **Interchange Control Number**<br>A control number assigned by the interchange sender<br>***This number must match the Interchange Control Number (ISA13) value.*** | **M N0 9/9** | **M** |